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ARMY FM 10-553
AIR FORCE TO 13C7-18-41

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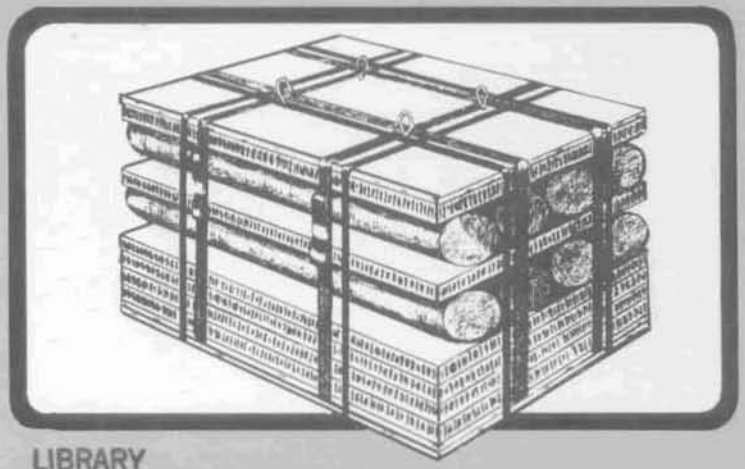
AIRDROP OF SUPPLIES AND EQUIPMENT

RIGGING AMMUNITION



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DEPARTMENTS OF THE ARMY AND THE AIR FORCE

FIELD MANUAL
NO. 10-553
TECHNICAL ORDER
NO. 13C7-18-41

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DEPARTMENT OF THE ARMY
AND THE AIR FORCE
WASHINGTON, DC, 4 DECEMBER 1981

AIRDROP OF SUPPLIES AND EQUIPMENT
RIGGING AMMUNITION:

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***This manual supersedes FM 10-553/TO 13C7-18-41, 28 February 1975, including all changes.**

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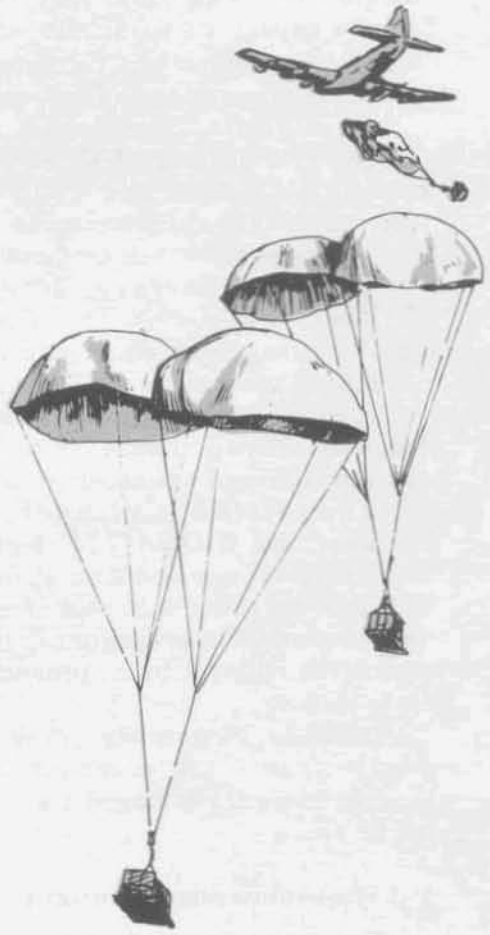
CHAPTER 1
INTRODUCTION



1-1. Scope

This manual tells and shows how to rig certain types of ammunition and explosives in A-22 cargo bags and A-7A cargo slings for low- or high-velocity airdrop. These procedures apply only to the items listed in this manual.

1-2. Special Considerations

CAUTION: Explosives and ammunition must be handled with care at all times. The explosives elements in primers and fuzes are sensitive to shock and high temperatures. Rigging personnel will insure that boxes or containers of explosives and ammunition are not dropped, thrown, tumbled, or dragged.

a. ***Hazardous Materials.*** These loads contain hazardous material, explosives or ammunition, as defined in AFR 71-4/TM 38-250. Hazardous materials must be packed, marked, and labeled as described in AFR 71-4/TM 38-250.

b. ***Mixed Loads.*** Mixed ammunition loads must comply with AFR 71-4/TM 38-250.

c. ***Boxed Ammunition.*** Boxed ammunition should be rigged in the position that it is normally shipped, with the box lid on top.

d. ***Damaged Ammunition.*** Ammunition and explosives damaged by airdrop must be destroyed in place by qualified explosive ordnance disposal (EOD) personnel.

e. ***81-Millimeter Ammunition.*** Care must be used after airdrop of 81-mm ammunition since possible detonation and drop zone contamination may occur.

f. ***90-Millimeter Ammunition.*** The 90-mm ammunition will contaminate the drop zone if a parachute malfunctions.

g. ***4.2-Inch Ammunition.*** If a parachute malfunctions, 4.2-inch ammunition may detonate on ground impact and contaminate the drop zone. All damaged rounds and containers must be considered dangerous and destroyed in place.

h. ***66-Millimeter Ammunition.*** The 66-mm ammunition must be rigged in the base down position. If a parachute malfunctions, detonation may occur on ground impact. All damaged rounds and containers must be considered dangerous and destroyed in place.

i. ***Smoke Grenades.*** If a parachute malfunctions, smoke grenades may detonate on ground impact and contaminate the drop zone.

j. ***Mine, Apers, M14 (DODAC 1345-K121).*** The M14 mine will contaminate the drop zone if a parachute malfunctions.

k. ***Mine, AP, M26 (DODAC 1345-K146).*** The M26 mine may detonate on ground impact if a parachute malfunctions. All damaged mines and containers must be considered dangerous and destroyed in place.

l. ***Mine, AT, HE, M19 (DODAC 1345-K250).*** The M19 mine may detonate on ground impact if a parachute malfunctions. All damaged mines and containers must be considered dangerous and destroyed in place.

m. ***Signals, Personnel Distress, XM185 and XM186 (DODAC 1370-L116 and L117).*** XM185 and XM186 personnel distress signals will detonate on ground impact if a parachute malfunctions.

n. ***Flare, Surface, M49A1, Trip (DODAC 1370-L495).*** The M49A1 surface trip flare may burn on ground impact if a parachute malfunctions. The surface trip flares will always be rigged in separate airdrop containers and must not be mixed with other explosive or ammunition items.

o. ***Ignition Cylinder, Flamethrower, M1 (DODAC 1375-M680).*** The M1 flamethrower ignition cylinders will detonate on ground impact if a prachute malfunctions. These ignitors do not contain explosives but will burn, producing an intense heat.

p. ***Fuze, Proximity.*** Proximity fuzes must be rigged in the "nose down" position. If the fuze boxes are damaged, the fuzes should not be used.

1-3. Recommended Changes

You are encouraged to report any errors or omissions you find in this manual and to suggest ways for making it a better manual. Army personnel, send your comments on DA Form 2028 (Recommended Changes to Publications and Blank Forms) directly to:

Commandant
US Army Quartermaster School
ATTN: ATSM-TDT
Fort Lee, Virginia 23801

Air Force personnel, send your reports on AFTO Form 22 (Technical Order Publication Improvement Report). Send the reports through:

Headquarters
Military Airlift Command
(MAC/DOVT)
Scott AFB, Illinois 62225

to:

Commandant
US Army Quartermaster School
ATTN: ATSM-TDT
Fort Lee, Virginia 23801

Also send info copies of AFTO Form 22 to:

San Antonio ALC/MMEDTR
Kelly AFB, Texas 78341

1-4. Parachute Requirements

a. ***Low-Velocity Airdrops.*** The G-12C and D, G-13, T-7A, and G-14 cargo parachutes used for low-velocity airdrops do not require special preparation. The G-12C and D, G-13, and G-14 cargo parachutes are packed according to TM 10-1670-215-23. The T-7A cargo parachute is packed according to TM 10-1670-215-25. Parachute requirements are listed in table 1-1.

b. ***High-Velocity Airdrops.*** The primary parachutes for high-velocity airdrops are the single 68-inch pilot chute and the 12- or 26-foot diameter canopy high-velocity cargo parachute. These parachutes require no special preparation and are packed as outlined in the appropriate manuals listed in appendix A. The 15- and 22-foot cargo extraction parachutes are authorized substitutes for the 12- and 26-foot cargo parachutes. The parachutes are prepared as outlined in FM 10-501/TO 13C7-1-11. Requirements for the parachutes are listed in table 1-2.

1-5. Equipment Required

The equipment required for rigging these loads is listed in appendix B.

Parachutes	Suspended Weight (lb) Minimum	Maximum
One T-7A	100	500
Two T-7A's	501	800
One G-13 or G-14	200	500
Two G-13's or G-14's	501	1,000
Three G-13's or G-14's	1,001	1,500
*One G-12 (C or D)	501	2,200

*Use the G-12 parachute when dropping fragile items. Clustered T-7A, G-13, or G-14 cargo parachute should be used ONLY when a G-12 cargo parachute is not available.

Table 1-1. Parachute requirements for low-velocity airdrop

Parachute	Suspended Weight (lb) Minimum	Maximum
*One 68-in pilot parachute	75	150
Three 68-in pilot parachutes	151	500
*One 12-ft ringslot parachute	151	500
One 15-ft cargo extraction parachute (reefed with 260-in reefing line)	151	500
*One 26-ft ringslot parachute	600	2,200
One 22-ft cargo extraction parachute	1,000	1,000

*Primary parachute.

NOTE: Computed air release point (CARP) data does not exist for loads weighing between 500 and 600 pounds. With the 22-foot cargo extraction parachute, CARP data exist only for 1,000 pound loads.

Table 1-2. Parachute requirements for high-velocity airdrop

1-6. Ammunition Rigging Table Instructions.

Ammunition items are listed by type and in DODAC number order. The numbers under the method of airdrop columns give the numbers of the figures which show how to arrange the loads. Items with national stock numbers (NSNs) are listed on page 1-26.

Item	A-22 Low-Velocity	A-22 High-Velocity	A-7A Low-Velocity	A-7A High-Velocity
5.56-Millimeter Ammunition				
Cartridge, 5.56mm, Tracer, M196 (DODAC 1305-A068)	2-1	2-44	3-1	3-20
Cartridge, 5.56-mm, Ball, M193 (DODAC 1305-A071)	2-1	2-44	3-1	3-20
7.62-Millimeter Ammunition				
Cartridge, 7.62-mm, Ball, M59 and M80 (DODAC 1305-A122)	2-1	2-44	3-1	3-20
Cartridge, 7.62-mm, Tracer, M62 (DODAC 1305-A124)	2-1	2-44	3-1	3-20
Cartridge, 7.62-mm, Ball Tracer Linked, with M13 Link, M80 (DODAC 1305-A127)	2-1	2-44	3-1	3-20
Cartridge, 7.62-mm, 5-Rd Clip, M80 (DODAC 1305-A130)	2-1	2-44	3-1	3-20
Cartridge, 7.62-mm, Ball Tracer Linked with M13 Link, M62 (DODAC 1305-A131)	2-1	2-44	3-1	3-20
Cartridge, 7.62-mm, Match, M118 (DODAC 1305-A136)	2-1	2-44	3-1	3-20
Cartridge, 7.62-mm, M62 Linked (DODAC 1305-A137)	2-2	2-45	3-1	3-20
Cartridge, 7.62-mm, Tracer, M62 (DODAC 1305-A140)	2-1	2-44	3-1	3-20
Cartridge, 7.62-mm, Ball, M80 Linked (DODAC 1305-A143)	2-2	2-45	3-1	3-20
Cartridge, 7.62-mm, Tracer, M62, Clipped (DODAC 1305-A145)	2-1	2-44	3-1	3-20
Cartridge, 7.62-mm, Tracer, M62 Linked (DODAC 1305-A146)	2-2	2-45	3-1	3-20
Cartridge, 7.62-mm, Linked, 9-Ball, M80, 1-TR, XM276 (DODAC 1305-A163)	2-3	2-46	3-2	3-21
Cartridge, 7.62-mm, Linked, 9-Ball M80, 1-TR, M62 (DODAC 1305-A165)	2-3	2-46	3-2	3-21

Table 1-3. Ammunition Rigging Table

Item	A-22 Low-Velocity	A-22 High-Velocity	A-7A Low-Velocity	A-7A High-Velocity
.30-Caliber Ammunition				
Cartridge, Cal .30, AP API, CTN, Grade R (DODAC 1305-A201)	2-3	2-46	3-2	3-21
Cartridge, Cal .30, API, CTN, Grade MG (DODAC 1305-A202)	2-3	2-46	3-2	3-21
Cartridge, Cal .30, AP API, 5-Rd Clip, Grade R (DODAC 1305-A203)	2-1	2-44	3-1	3-20
Cartridge, Cal .30, AP API, 8-Rd Clip, Grade R (DODAC 1305-A205)	2-1	2-44	3-1	3-20
Cartridge, Cal .30, AP API, Linked with M1 Link, M2, Grade MG (DODAC 1305-A207)	2-1	2-44	3-1	3-20
Cartridge, Cal .30, AP API, Linked, with Tracer (DODAC 1305-A209)	2-1	2-44	3-1	3-20
Cartridge, Cal .30, Ball, M2 (DODAC 1305-A212)	2-1	2-44	3-1	3-20
Cartridge, Cal .30, Ball, M2 Clipped (DODAC 1305-A214)	2-4	2-47	3-2	3-21
Cartridge, Cal .30, Ball, M2 Clipped (DODAC 1305-A216)	2-2	2-45	3-1	3-20
Cartridge, Cal .30, Ball and Tracer, Linked (DODAC 1305-A218)	2-1	2-44	3-1	3-20
Cartridge, Cal .30, Tracer Carton (DODAC 1305-A230)	2-1	2-44	3-1	3-20
Cartridge, Cal .30, Tracer, M1, Clipped (DODAC 1305-A232)	2-4	2-47	3-2	3-21
Cartridge, Cal .30, Tracer, M1 or M25 Clipped (DODAC 1305-A234)	2-2	2-45	3-1	3-20
Cartridge, Cal .30, Tracer, M25, Linked (DODAC 1305-A236)	2-1	2-44	3-1	3-20
.32-Caliber Ammunition				
Cartridge, Cal .32, Ball, Auto 71, Grain (DODAC 1305-A350)	2-4	2-47	3-1	3-20
.38-Caliber Ammunition				
Cartridge, Cal .38, Special, Ball, M41 (DODAC 1305-A400)	2-4	2-47	3-1	3-20

Table 1-3. (Continued)

Item	A-22 Low-Velocity	A-22 High-Velocity	A-7A Low-Velocity	A-7A High-Velocity
.45-Caliber Ammunition				
Cartridge, Cal .45, Ball, M1911 (DODAC 1305-A475)	2-1	2-44	3-1	3-20
.50-Caliber Ammunition				
Cartridge, Cal .50, API M8 (DODAC 1305-A531)	2-1	2-44	3-1	3-20
Cartridge, Cal .50, API, M8 Carton, Grade MG or API-T, M20 (DODAC 1305-A532)	2-4	2-47	3-3	3-22
Cartridge, Cal .50, API, M8 Linked (DODAC 1305-A533)	2-1	2-44	3-1	3-20
Cartridge, Cal .50, API, M8 Linked with M2 Link, Grade MG (DODAC 1305-A534)	2-4	2-47	3-3	3-22
Cartridge, Cal .50, APT-T, M20 (DODAC 1305-A541)	2-1	2-44	3-1	3-20
Cartridge, Cal .50, APIT, M20, Carton, Grade MG (DODAC 1305-A542)	2-3	2-46	3-4	3-23
Cartridge, Cal .50, APIT, M20, Linked with M2 Link, Grade AC (DODAC 1305-A543)	2-1	2-44	3-1	3-20
Cartridge, Cal .50, APIT, M20, Linked with M1 Link, Grade MG (DODAC 1305-A544)	2-1	2-44	3-1	3-20
Cartridge, Cal .50, Tracer, M17, Grade MG (DODAC 1305-A571)	2-1	2-44	3-1	3-20
Cartridge, Cal .50, Tracer, M17 Linked with M2 Link. Grade AC (DODAC 1305-A572)	2-1	2-44	3-1	3-20
Cartridge, Cal .50, Spotter-Tracer, M48A2 (DODAC 1305-A574)	2-1	2-44	3-1	3-20
Cartridge, Cal .50, Linked, 4 API, M8, API-T M20, (DODAC 1305-A576)	2-1	2-44	3-1	3-20

Table 1-3. (Continued)

Item	A-22 Low-Velocity	A-22 High-Velocity	A-7A Low-Velocity	A-7A High-Velocity
Cartridge, Cal .50, Linked, 4 API, M8, API-T M20 (DODAC 1305-A577)	2-1	2-44	3-1	3-20
Cartridge, Cal .50, API-T M20, Linked (DODAC 1305-A585)	2-1	2-44	3-1	3-20
Cartridge, Cal .50, Linked, 4 API, M8, 1 APT-T, M20 (DODAC 1305-A587)	2-1	2-44	3-1	3-20
Cartridge, Cal .50, Linked, 4 API M8, 1 API-T M20, (DODAC 1305-A589)	2-1	2-44	3-1	3-20
20-Millimeter Ammunition				
Cartridge, 20-mm, Linked 4HE1/TP-T (DODAC 1305-A653)	2-5	2-48	3-5	3-24
Cartridge, 20-mm, Linked, 7HEI, M56A3-1, XM220 (DODAC 1305-A655)	2-5	2-48	3-5	3-24
Cartridge, 20-mm, Linked HEAT-SD, M246 (DODAC 1305-A792)	2-5	2-48	3-5	3-24
40-Millimeter Ammunition				
Cartridge, 40-mm, HEDP M33 (DODAC 1310-B470)	2-6	2-49	3-6	3-22
Cartridge, 40-mm, White Star, M583A1 (DODAC 1310-B535)	2-7	2-50	3-7	3-25
Cartridge, 40-mm, HE, M430 (DODAC 1310-B542)	2-6	2-49	3-6	
Cartridge, 40-mm, HEDP, M433 (DODAC 1310-B546)	2-8	2-51	3-8	3-26
Cartridge, 40-mm, AP-T, M81 (DODAC 1310-B552)	2-9	2-52	3-4	3-23
Cartridge, 40-mm, HEI-T, SD, (DODAC 1310-B559)	2-4	2-47	3-3	3-22
Cartridge, 40-mm, HE-T, SD, M3, MK11, MK2 (DODAC 1310-B562)	2-9	2-52	3-4	3-23
Cartridge, 40-mm, HE, Linked, M383E1 (DODAC 1310-B571)	2-6	2-49	3-6	

Table 1-3. (Continued)

Item	A-22 Low-Velocity	A-22 High-Velocity	A-7A Low-Velocity	A-7A High-Velocity
Cartridge, 40-mm, HE, Linked, M384 (DODAC 1310-B572)	2-6	2-53	3-6	
60-Millimeter Ammunition				
Cartridge, 60-mm, Illuminating, M83A3 (DODAC 1310-B627)	2-10	2-54	3-3	
Cartridge, 60-mm, Smoke, WP, M302A1 (DODAC 1310-B630)	2-10	2-54	3-9	3-20
Cartridge, 60-mm, HE, M49A4 (DODAC 1310-B632)	2-8	2-55	3-6	3-26
81-Millimeter Ammunition				
Cartridge, 81-mm, HE, M362 (DODAC 1315-C222)	2-6	2-49	3-6	3-27
Cartridge, 81-mm, HE, M362 (DODAC 1315-C223)	2-6	2-49	3-6	3-27
Cartridge, 81-mm, HE, M43A1 (DODAC 1315-C225)	2-6	2-49	3-6	3-27
Cartridge, 81-mm, Illuminating, M301A3 (DODAC 1315-C226)	2-11	2-56	3-3	3-22
Cartridge, 81-mm, Smoke, WP, M57 (DODAC 1315-C230)	2-12	2-57	3-6	3-27
Cartridge, 81-mm, HE, M374A2 (DODAC 1315-C236)	2-6	2-49	3-6	3-22
Cartridge, 81-mm, HE, M374A2, with Fuze M524A5 (DODAC 1315-C256)	2-6	2-49	3-6	3-22
Cartridge, 81-mm, HE, M374A2, with Fuze M524A6 (DODAC 1315-C256)	2-6	2-49	3-6	3-22
Cartridge, 81-mm, HE, M374A2, with Fuze M526 (DODAC 1315-C256)	2-6	2-49	3-6	3-22
Cartridge, 81-mm, HE, M374A2, with Fuze M567 (DODAC 1315-C256)	2-6	2-49	3-6	3-22
Cartridge, 81-mm, HE M374A2, with Fuze M716 (DODAC 1315-C256)	2-6	2-49	3-6	3-22
Cartridge, 81-mm, Smoke, WP, M375A2 with Fuze PD 524A6 (DODAC 1315-C276)	2-6	2-49	3-6	3-22

Table 1-3. (Continued)

Item	A-22 Low-Velocity	A-22 High-Velocity	A-7A Low-Velocity	A-7A High-Velocity
Cartridge, 81-mm, Smoke, WP, M375A2 with Fuze M526 (DODAC 1315-C276)	2-6	2-49	3-6	3-22
Cartridge, 81-mm, Smoke, WP, M375A2 without Fuze (DODAC 1315-C276)	2-6	2-49	3-6	3-22
90-Millimeter Ammunition				
Cartridge, 90-mm, WP, M313C (DODAC 1315-C258)	2-13	2-58	3-4	3-23
Cartridge, 90-mm, APC-T, M82 (DODAC 1315-C260)	2-13	2-58	3-4	3-23
Cartridge, 90-mm, HE, M71 (DODAC 1315-C265)	2-13	2-58	3-4	3-23
Cartridge, 90-mm, HE, M71 (DODAC 1315-C266)	2-13	2-58	3-4	3-23
Cartridge, 90-mm, HE, M71 (DODAC 1315-C267)	2-13	2-58	3-4	3-23
Cartridge, 90-mm, Smoke, WP, M313 (DODAC 1315-C273)	2-13	2-58	3-4	3-23
Cartridge, 90-mm, APERS-T, M580 (DODAC 1315-C275)	2-13	2-58		
Cartridge, 90-mm, HE-T M71A1 with Fuze PD, M557 (DODAC 1315-C280)	2-13	2-58	3-4	3-23
Cartridge, 90-mm, HEAT, M371 (DODAC 1315-C282)	2-14, 2-15	2-59	3-6, 3-10	3-27, 3-28
Cartridge, 90-mm, AP-T, M318 or M318A1 (DODAC 1315-C285)	2-13	2-58	3-4	3-23
Cartridge, 90-mm, HEP-T T142E3 (DODAC 1315-C292)	2-13	2-58	3-4	3-22
Cartridge, 90-mm, HEAT, M431 (DODAC 1315-C294)	2-13	2-58	3-4	3-22
Cartridge, 90-mm Canister, Antiper, M590 (DODAC 1315-C410)	2-16, 2-17	2-60, 2-61	3-6, 3-10	3-26, 3-28
Cartridge, 90-mm Canister, M377 (DODAC 1315-C601)	2-13	2-58	3-4	3-23

Table 1-3. (Continued)

Item	A-22 Low-Velocity	A-22 High-Velocity	A-7A Low-Velocity	A-7A High-Velocity
105-Millimeter Ammunition				
Cartridge, 105-mm, HE, M1 (DODAC 1315-C443)	2-13	2-58	3-4	3-23
Cartridge, 105-mm, HE, M1 (DODAC 1315-C444)	2-13	2-58	3-4	3-23
Cartridge, 105-mm, HE, M1 (DODAC 1315-C445)	2-13	2-58	3-4	3-23
Cartridge, 105-mm, HEP-T M327 (DODAC 1315-C448)	2-13	2-58	3-4	3-23
Cartridge, 105-mm, Illuminating, M314A3 (DODAC 1315-C449)	2-13	2-58	3-4	3-23
Cartridge, 105-mm, Smoke, HC, BE, M84, or M84A1 (DODAC 1315-C452)	2-13	2-58	3-4	3-23
Cartridge, 105-mm, Smoke, WP, M60 (DODAC 1315-C454)	2-13	2-58	3-4	3-23
Cartridge, 105-mm, HE, M444 (DODAC 1315-C462)	2-13	2-58	3-4	3-23
Cartridge, 105-mm, HE, XM548E1 (DODAC 1315-C463)	2-18	2-62	3-4	3-23
Cartridge, 105-mm, Tactical, CS, M629 (DODAC 1315-C468)	2-13	2-58	3-4	3-23
Cartridge, 105-mm, Smoke, WP, M60 (DODAC 1315-C477)	2-13	2-58	3-4	3-23
Cartridge, 105-mm, ADPS-T M728 (DODAC 1315-C494)	2-18	2-62	3-4	3-23
Cartridge, 105-mm, APDS-T, M392A2 (DODAC 1315-C505)	2-18	2-62	3-4	3-23
Cartridge, 105-mm, HEAT-T, M456A1E2 (DODAC 1315-C508)	2-18, 2-19	2-62, 2-63	3-4, 3-11	3-23, 3-30
Cartridge, 105-mm, TP-T M490 (DODAC 1315-C511)	2-18, 2-19	2-62, 2-63	3-4, 3-11	3-23, 3-30
Cartridge, 105-mm, Smoke, WP-T, M416, with Fuze BD M534A1 (DODAC 1315-C512)	2-18	2-62	3-4	3-23
Cartridge, 105-mm, Smoke, WP-T, M416, with Fuze BD M534A1, Steel Case (DODAC 1315-C512)	2-18	2-62	3-4	3-23

Table 1-3. (Continued)

Item	A-22 Low-Velocity	A-22 High-Velocity	A-7A Low-Velocity	A-7A High-Velocity
Cartridge, 105-mm, APERS-T, M546, with Fuze MT, M563 (DODAC 1315-C513)	2-13	2-58	3-4	3-23
Cartridge, 105-mm, HEP-T M393A2 (DODAC 1315-C518)	2-18	2-62	3-4	3-23
Cartridge, 105-mm, APER-T, M494 with Fuze M571 (DODAC 1315-C519)	2-18	2-62	3-4	3-23
4.2-Inch Ammunition				
Cartridge, 4.2-in, HE, M329A1 (DODAC 1315-C704)	2-14	2-64	3-2	3-21
Cartridge, 4.2-in, HE M329A1 (DODAC 1315-C705)	2-14	2-64	3-2	3-21
Cartridge, 4.2-in, Illuminating, M335A2 (DODAC 1315-C706)	2-14	2-64	3-2	3-21
Cartridge, 4.2-in, Smoke, WP, M328A1 (DODAC 1315-C708)	2-14	2-64	3-2	3-21
106-Millimeter Ammunition				
Cartridge, 106-mm, Heat, M344A1 (DODAC 1315-C650)	2-13	2-58	3-4	3-23
Cartridge, 106-mm, HEP-T M346A1 (DODAC 1315-C651)	2-13	2-58	3-4	3-23
Cartridge, 106-mm, APERS-T M581 (DODAC 1315-C660)	2-13	2-58	3-4	3-23
152-Millimeter Ammunition				
Cartridge, 152-mm, TD-T XM411E3 (DODAC 1320-D380)	2-20	2-65	3-12	3-29
Cartridge, 152-mm, HEAT-MP, XN409E6 (DODAC 1320-D381)	2-21, 2-22	2-66, 2-67	3-11	3-30
Cartridge, 152-mm, Canister, M625A1 (DODAC 1320-D390)	2-21, 2-22	2-66, 2-67	3-11	3-30
155-Millimeter Ammunition				
Charge, Propelling, 155-mm, M19 (DODAC 1320-D480)	2-23	2-68	3-13	3-31
Projectile, 155-mm, Gas, Persistent, HD, M104 (DODAC 1320-D484)	2-23	2-68	3-13	3-31

Table 1-3. (Continued)

Item	A-22 Low-Velocity	A-22 High-Velocity	A-7A Low-Velocity	A-7A High-Velocity
Projectile, 155-mm, HE, M101 (DODAC 1320-D485)	2-23	2-68	3-13	3-31
Projectile, 155-mm, Smoke, WP, (DODAC 1320-D487)	2-23	2-68	3-13	3-31
Reducer, Flash, Propelling Charge, M1 (DODAC 1320-D490)	2-23	2-68	3-13	3-31
Projectile, 155-mm, HE, ADAM M692 (DODAC 1320-D501)	2-23	2-68	3-13	3-31
Projectile, 155-mm, HE, ADAM M731 (DODAC 1320-D502)	2-23	2-68	3-13	3-31
Projectile, 155-mm, Illuminating, M485A2 (DODAC 1320-D505)	2-23	2-68	3-13	3-31
Projectile, 155-mm, HC, HE, M116E2 (DODAC 1320-D506)	2-23	2-68	3-13	3-31
Charge, Propelling, 155-mm, M203 (DODAC 1320-D532)	2-23	2-68	3-13	3-31
Charge, Propelling, 155-mm, M119A1 and M119A2 (DODAC 1320-D533)	2-23	2-68	3-13	3-31
Charge, Propelling, 155-mm, M3 (DODAC 1320-D540)	2-23	2-68	3-13	3-31
Charge, Propelling, 155-mm, M4A1 (DODAC 1320-D541)	2-23	2-68	3-13	3-31
Projectile, 155-mm, HE, M107 (DODAC 1320-D544)	2-23	2-68	3-13	3-31
Projectile, 155-mm, Smoke, HC BE, M116 (DODAC 1320-D548)	2-23	2-68	3-13	3-31
Projectile, 155-mm, Smoke, WP M110 (DODAC 1320-D550)	2-23	2-68	3-13	3-31
Reducer, Flash, Propelling Charge, M2 (DODAC 1320-D552)	2-23	2-68	3-13	3-31
Projectile, 155-mm, HE M449A1 (DODAC 1320-D562)	2-23	2-68	3-13	3-31
Projectile, 155-mm, HE, M483A1 (DODAC 1320-D563)	2-23	2-68	3-13	3-31

Table 1-3. (Continued)

Item	A-22 Low-Velocity	A-22 High-Velocity	A-7A Low-Velocity	A-7A High-Velocity
Projectile, 155-mm, HE, RA, M549 (DODAC 1320-D579)	2-23	2-68	3-13	3-31
175-Millimeter Ammunition				
Additive Jacket, M1 for 175-mm Propelling Charge (DODAC 1320-D110)			3-3	
Charge, Propelling, 175-mm, WB, M86A2 with Additive Jacket M1 and Primer Percussion M82 (DODAC 1320-D361)	2-24	2-69		
Projectile, 175-mm, HE, M437A2 (DODAC 1320-D572)	2-24	2-69		
8-Inch Ammunition				
Charge, Propelling, 8-in, WB, M188 (DODAC 1320-D661)	2-25	2-70		
Charge, Propelling, 8-in, M1 (DODAC 1320-D675)	2-25	2-70		
Charge, Propelling, 8-in, M2 (DODAC 1320-D676)	2-25	2-70		
Projectile, 8-in, HE, M106 (DODAC 1320-D680)	2-25	2-70		
Reducer, Flash, Propelling Charge, M3 (DODAC 1320-D681)	2-25	2-70		
Projectile, 8-inch, HE, M404 (DODAC 1320-D684)	2-25	2-70		
Canister Cluster				
Canister Cluster, XM15 (DODAC 1325-F497)	2-26			
GRENADES				
Cartridge, Grenade, Rifle, NATO, 7.62-mm, M64 (DODAC 1330-G839)	2-7	2-50	3-1	3-26
Grenade, Hand, Fragmentation, M67 with Fuze (DODAC 1330-D881)	2-10	2-54	3-6	3-26

Table 1-3. (Continued)

Item	A-22 Low-Velocity	A-22 High-Velocity	A-7A Low-Velocity	A-7A High-Velocity
Grenade, Hand, Fragmentation, M33 (DODAC 1330-G888)	2-16	2-60	3-6	3-26
Grenade, Hand, Fragmentation, M26A2 (DODAC 1330-G889)	2-6	2-49	3-14	3-32
Grenade, Hand, Fragmentation, M26, or M26A1 (DODAC 1330-G890)	2-6	2-49	3-14	3-32
Grenade, Hand, Incendiary, TH-3, AN-M14, with Fuze M201A1 (DODAC 1330-G900)	2-7	2-50	3-9	3-20
Grenade, Hand Offensive, MK3A2, with Fuze (DODAC 1330-G911)	2-27	2-71	3-6	3-26
Grenade, Hand, Smoke, HC, ABC, AN-M18, with Fuze (DODAC 1330-G930)	2-28	2-55	3-15	3-26
Grenade, Hand, Green Smoke, M18, with Fuze (DODAC 1330-G940)	2-28	2-55	3-15	3-26
Grenade, Hand, Yellow Smoke, M18, with Fuze (DODAC 1330-G945)	2-28	2-55	3-15	3-26
Grenade, Hand, Red Smoke, M18, with Fuze (DODAC 1330-G950)	2-28	2-55	3-15	3-26
Grenade, Hand, Violet Smoke, M18, with Fuze, M201A1 (DODAC 1330-G955)	2-28	2-55	3-15	3-26
Grenade, Hand, Riot Control, M7A3, with Fuze (DODAC 1330-G963)	2-28	2-55	3-15	3-26
Launcher and Grenade Smoke, HC, WP, M176 (DODAC 1330-H050)	2-29	2-72		
Rockets				
Rocket, 2.75 in, W/HD, HE, M151 with Fuze M440 and motor MK40 Mod 3 (DODAC 1340-H161)	2-30, 2-31	2-73, 2-74		
Rocket, 2.75 in, W/WH, WDU-4A/A, and motor MK40 Mod 3 (DODAC 1340-H459)	2-30, 2-31	2-73, 2-74		

Table 1-3. (Continued)

Item	A-22 Low-Velocity	A-22 High-Velocity	A-7A Low-Velocity	A-7A High-Velocity
Rocket, 2.75 in, WHD, HE, XM229, with Liner and Fuze M429 and Motor MK 40 Mod 3 (DODAC 1340-H488)	2-31, 2-32	2-74, 2-75		
Rocket, 2.75 in, WHD, HE M151 with Fuze M429 and Motor MK 40 Mod 3 (DODAC 1340-H489)	2-30, 2-31	2-73, 2-74		
Rocket, 2.75 in, WHD, HE, M151 with Fuze M423 and Motor MK 40 Mod 3 (DODAC 1340-H490)	2-30, 2-31	2-73, 2-74		
Rocket, 2.75 in, Smoke, WP, M156, with Fuze M423 and Motor MK 40 Mod 3 (DODAC 1340-H519)	2-30	2-73		
Rocket, 2.75 in, WHD, HE, XM 229 with Fuze M423 and Motor MK 40 Mod 3 (DODAC 1340-H534)	2-30, 2-31	2-73, 2-74		
Rocket, 66-mm, HEAT, M72A2 with Launcher (DODAC 1340-H557)	2-33	2-76		
Rocket, 2.75 in, WHD, HEDP, XM247, with Fuze xm438 and Motor MK 40 Mod 3 (DODAC 1340-H826)	2-30	2-73		
Incendiary Item				
Burster, Incendiary, Field, M4 without Fuze (DODAC 1345-K010)	2-1	2-44	3-1	3-20
Antipersonnel and Antitank Mines				
Activator, Mine, AR, M1 (DODAC 1345-K001)	2-12	2-57	3-16	3-33
Mine, Antipersonnel, M16A1, with Fuze Mine M605 (DODAC 1345-K092)	2-7	2-50	3-9	3-34
Mine, Antipersonnel, MN, M14 (DODAC 1345-K121)	2-6	2-72		
Mine, Antipersonnel, M18A1, with Accessories (DODAC 1345-K143)	2-7	2-77	3-1	

Table 1-3. (Continued)

Item	A-22 Low-Velocity	A-22 High-Velocity	A-7A Low-Velocity	A-7A High-Velocity
Mine, AP, M26 (DODAC 1345-K146)	2-34	2-60	3-3	3-22
Mine, Antitank, HEAT, Heavy M15 with Fuze M603 (DODAC 1345-K180)	2-6	2-72		
Mine, Antitank, HE, M21 Heavy with Fuze Combination M607 (DODAC 1345-K181)	2-14	2-78	3-2	3-22
Mine, AT, HE, M19 (DODAC 1345-K250)	2-26	2-79	3-17	
Mine Chemical Agent, 1 gal (Empty) (DODAC 1345-K260)	2-43	2-90		
Incendiary Items				
Thickener, Incendiary Oil, M4 (DODAC 1365-K917)	2-35	2-80		
Starter, fire, NP3, M2 (DODAC 1370-L621)	2-43	2-90		
Flare and Signal Items				
Signal Kit, Personnel Distress, XM185 (DODAC 1370-L116)	2-9	2-81		
Signal Kit, Personnel Distress, XM186 (DODAC 1370-L117)	2-9	2-81		
Signal, Illuminating, A/C. Single Star, AN-43A2, Red (DODAC 1370-L231)	2-10	2-54	3-6	3-22
Signal, Illuminating, A/C. Single Star, AN-M45A2, Green (DODAC 1370-L233)	2-10	2-54	3-6	3-22
Signal, Illuminating, Ground, M195 Green Star (DODAC 1370-L305)	2-36	2-82	3-1	3-20
Signal, Illuminating, Ground, M158 Red Star (DODAC 1370-L306)	2-36	2-82	3-1	3-20
Signal, Illuminating, Ground M159 White Star (DODAC 1370-L307)	2-36	2-82	3-1	3-20

Table 1-3. (Continued)

Item	A-22 Low-Velocity	A-22 High-Velocity	A-7A Low-Velocity	A-7A High-Velocity
Signal, Illumination, Ground Parachute, M126A1 (DODAC 1370-L311)	2-36	2-82	3-1	3-20
Signal, Illuminating, Parachute, M127A1, White Star (DODAC 1370-L312)	2-36	2-82	3-1	3-20
Signal, Illumination, GRD, Cluster, M125A1 (DODAC 1370-L314)	2-36	2-82	3-1	3-20
Signal, Smoke, Parachute, M129A1, Red (DODAC 1370-L323)	2-36	2-82	3-1	3-20
Signal, Smoke, Parachute, M128A1, Green (DODAC 1370-L324)	2-36	2-82	3-1	3-20
Flare, Surface, M49A1, Trip (DODAC 1370-L495)	2-29	2-72	3-8	3-26
Demolition Items				
Charge, Demolition Block, Comp C4 1 1/4 lb, M112 (DODAC 1375-M023)	2-7	2-50	3-9	3-20
Charge, Demolition, Block, PETN, M118 (DODAC 1375-M024)	2-34	2-83	3-6	3-26
Demolition Kit, Bangalore Torpedo, M1A1(DODAC 1375-M026)	2-37	2-84		
Demolition Kit, Bangalore Torpedo, M1A2 (DODAC 1375-M028)	2-37	2-84		
Charge, Demolition, Block, 1/4-lb TNT (DODAC 1375-M030)	2-29	2-80	3-3	3-22
Charge, Demolition, Block, 1/2-lb TNT (DODAC 1375-M031)	2-34	2-60	3-5	3-24
Charge, Demolition, Block, 1-lb TNT (DODAC 1375-M032)	2-34	2-60	3-5	3-24
Charge, Demolition, Chain, M1, Eight 2 1/2-lb Telrytol Charge Strung on Detonating Cord (DODAC 1375-M035)	2-6	2-49	3-12	3-29
Charge, Demolition, Block, M2 (DODAC 1375-M036)	2-6	2-49	3-12	3-29
Charge, Demolition, Block, M3 (DODAC 1375-M037)	2-38	2-85	3-9	3-20

Table 1-3. (Continued)

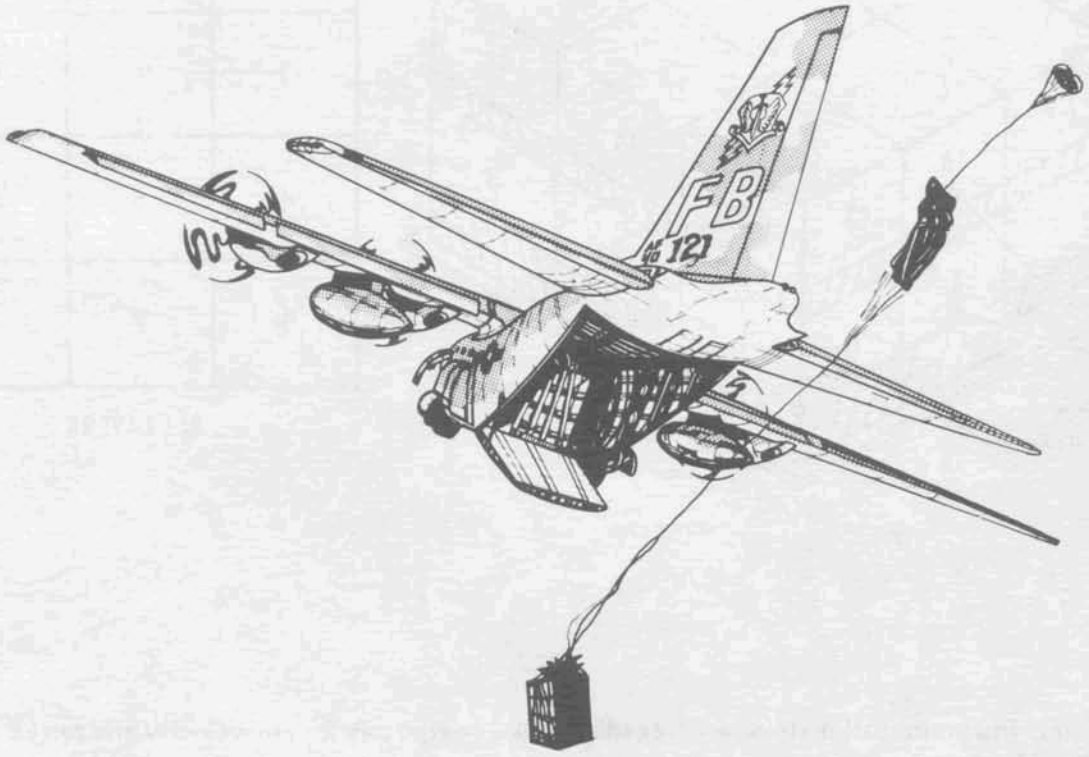
Item	A-22 Low-Velocity	A-22 High-Velocity	A-7A Low-Velocity	A-7A High-Velocity
Charge, Demolition, Block, M541 (DODAC 1375-M038)	2-39	2-86	3-12	3-29
Charge, Demolition, Block, 40-lb Cratering Ammonia Nitrate (DODAC 1375-M039)	2-14	2-59	3-6	3-27
Charge, Demolition, Roll Type, XM-186 (DODAC 1375-M060)	2-9	2-81	3-3	3-22
Cap, Blasting, Special Electric, M6 (DODAC 1375-M130)	2-9	2-81		
Cap, Blasting, Special Non-Electric, M7 (DODAC 1375-M131)	2-29	2-72	3-3	3-22
Destructor, Explosive, Universal, M10 (DODAC 1375-M241)	2-36	2-82	3-18	3-35
Coupling Base, Firing Device with Primer, Percussion M27 (DODAC 1375-M327)	2-8	2-51	3-15	
Charge, Propelling, Earth Rod, M12, with Primer M44 (DODAC 1375-M405)	2-1	2-44		
Charge, Demolition, Shaped, HJE, 15-lb, M2A3 (DODAC 1375-M420)	2-40	2-87	3-12	3-29
Charge, Demolition, Shaped, 40-lb, M3 (DODAC 1375-M421)	2-10	2-47	3-12	3-29
Detonator, Percussion, M1A2, 15-sec Delay (DODAC 1375-M450)	2-34	2-72	3-12	3-29
Cord, Detonating, Reinforced Pliofilm/Wrapped Waterproof, Type I (DODAC 1375-M456)	2-14	2-59	3-3	3-36
Detonator, Kit, Concussion, M1 (DODAC 1375-M540)	2-41			
Detonator, Friction, M2, 8-sec Delay (DODAC 1375-M541)	2-35			
Detonator, Friction, M1 or M1A1, 15-sec Delay (DODAC 1375-M542)	2-35			
Dynamite, Military, M1 (DODAC 1375-M591)	2-4	2-47	3-3	3-22

Table 1-3. (Continued)

Item	A-22 Low-Velocity	A-22 High-Velocity	A-7A Low-Velocity	A-7A High-Velocity
Firing Device, Demolition, M1A1 Pressure Type (DODAC 1375-M626)	2-42	2-88	3-3	3-36
Firing Device, Demolition, M5, Pressure Release Type (DODAC 1375-M627)	2-27	2-60	3-6	3-26
Firing Device, Demolition, M3 Pull Release Type (DODAC 1375-M629)	2-7	2-50	3-9	3-20
Firing Device, Demolition, M1, Pull Type (DODAC 1375-M630)	2-34	2-60	3-2	3-22
Firing Device, Demolition, M1 Release Type (DODAC 1375-M631)	2-34	2-83	3-6	
Fuze, Blasting Time, M700 (DODAC 1375-M670)	2-26	2-89		
Ignition Cylinder, Portable Flamethrower, M1, Type II (DODAC 1375-M680)	2-36	2-51	3-7	3-26
Charge, Assembly, Demolition, M37 (DODAC 1375-M756)	2-7	2-50	3-9	3-20
Charge, Assembly, Demolition, M183 (DODAC 1375-M757)	2-34	2-47	3-3	3-26
Igniter Time Blasting Fuze, M2 or M60, Weatherproof (DODAC 1375-M766)	2-27	2-71	3-6	3-26
Explosive Kit Earth Rod, Set No. 1 (DODAC 1375-M820)	2-13	2-58		
Fuzes and Primers				
Fuze, MT, M565 (DODAC 1390-N248)	2-43	2-90	3-19	3-37
Fuze, MTSQ, M500 or M500A1 (DODAC 1390-N275)	2-43	2-90	3-19	3-37
Fuze, MTSQ, M501 or M501A1 (DODAC 1390-N276)	2-43	2-90	3-19	3-37
Fuze, MTSQ, M502 or M502A1 (DODAC 1390-N277)	2-43	2-90	3-19	3-37
Fuze, MT, M564 (DODAC 1390-N278)	2-43	2-90	3-19	3-37

Table 1-3. (Continued)

CHAPTER 2
RIGGING A-22 CARGO BAG LOADS



Section I

RIGGING A-22 CARGO BAG FOR LOW-VELOCITY AIRDROP

2-1. Preparing A-22 Cargo Bag

Prepare the A-22 cargo bag according to FM 10-501/TO 13C7-1-11.

2-2. Special Instructions

a. The ammunition loads are positioned in the A-22 cargo bag for low-velocity airdrop according to the figures listed in this section.

b. A-22 cargo bags rigged to be dropped in a double stick cannot be more than 80 3/8 inches high, including parachute, and 53 1/2 inches wide. However, loads between 80 3/8 and 100 inches high may be dropped in a single stick or, with prior Air Force approval, in a double stick. Any load that extends beyond the limits of the standard A-22 skid must be across the 48-inch length.

c. The minimum allowable rigged weight of an A-22 cargo bag, including parachute, shall be 35 pounds per square foot, based upon the largest projected surface area.

d. Close and secure the A-22 cargo bag according to FM 10-501/TO 13C7-1-11.

2-3. Parachute Requirements

Select the correct size parachute(s) from Table 1-1. Attach the parachute(s) to the rigged load according to FM 10-501/TO 13C7-1-11.

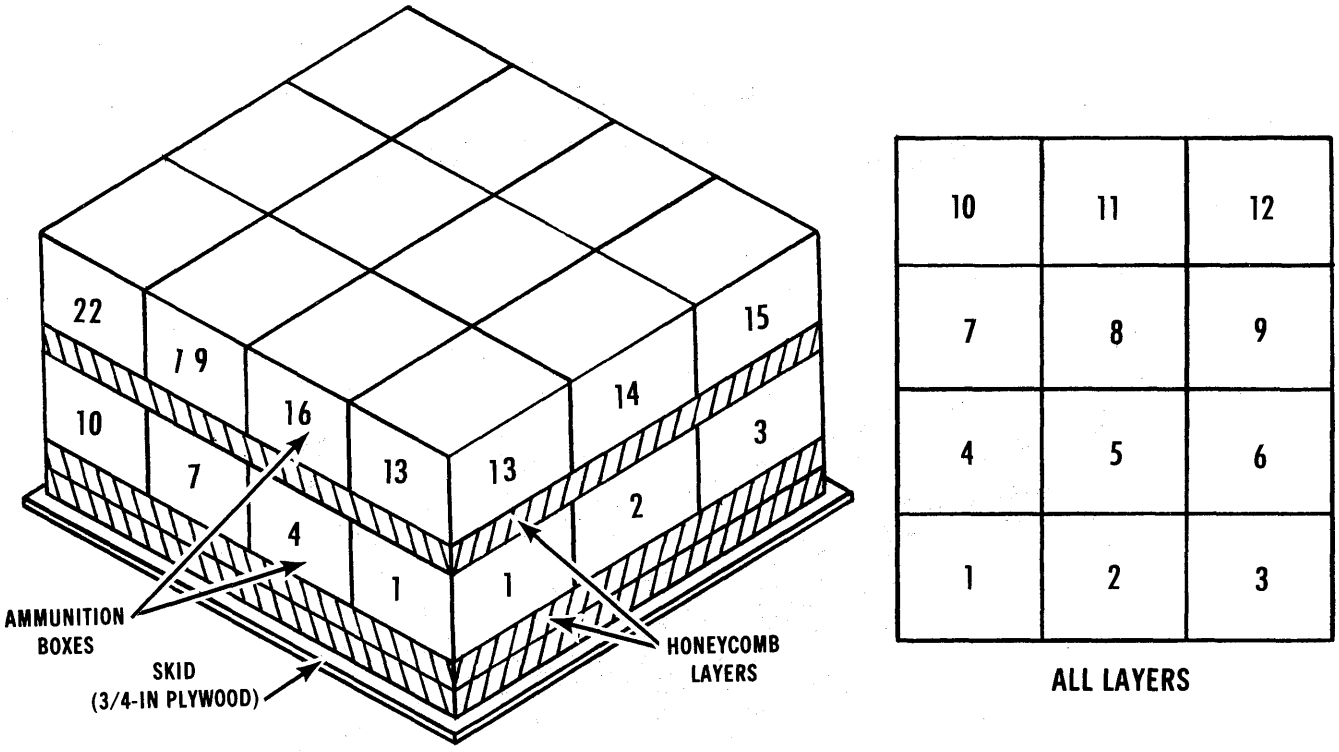


Figure 2-1

The following ammunition items are rigged in an A-22 cargo bag for low-velocity airdrop as shown in figure 2-1.

5.56-Millimeter Ammunition

Cartridge, 5.56-mm, Tracer, M196 (DODAC 1305-A068)
Cartridge, 5.56-mm, Ball, M193 (DODAC 1305-A071)

7.62-Millimeter Ammunition

Cartridge, 7.62-mm, Ball, M59 & M80 (DODAC 1305-A122)
Cartridge, 7.62-mm, Tracer, M62 (DODAC 1305-A124)
Cartridge, 7.62-mm, Ball Tracer, Linked, with M13 Link, M80 (DODAC 1305-A127)
Cartridge, 7.62-mm, 5-Rd. Clip, M80 (DODAC 1305-A130)
Cartridge, 7.62-mm, Ball Tracer, Linked with M13 Link, M62 (DODAC 1305-A131)
Cartridge, 7.62-mm, Match, M118 (DODAC 1305-A136)
Cartridge, 7.62-mm, Tracer, M62 (DODAC 1305-A140)
Cartridge, 7.62-mm, Tracer, M62 Clipped (DODAC 1305-A145)

.30-Caliber Ammunition

Cartridge, Cal .30, AP API, 5-Rd Clip, Grade R (DODAC 1305-A203)
Cartridge, Cal .30, AP API, 8-Rd Clip, Grade R (DODAC 1305-A205)
Cartridge, Cal .30, AP API, M2 Linked, with M1 Link, Grade MG (DODAC 1305-A207)
Cartridge, Cal .30, AP API, Linked, with Tracer (DODAC 1305-A209)
Cartridge, Cal .30, Ball, M2 (DODAC 1305-A212)
Cartridge, Cal .30, Ball and Tracer, Linked (DODAC 1305-A218)
Cartridge, Cal .30, Tracer, Carton (DODAC 1305-A230)
Cartridge, Cal .30, Tracer, M25, Linked (DODAC 1305-A236)

.45-Caliber Ammunition

Cartridge, Cal .45, Ball, M1911 (DODAC 1305-A475)

.50-Caliber Ammunition

Cartridge, Cal .50, API M8 (DODAC 1305-A531)
Cartridge, Cal .50, API M8 (DODAC 1305-A533)
Cartridge, Cal .50, APT-T, M20 (DODAC 1305-A541)
Cartridge, Cal .50, APIT, M20, Linked with M2 Link, Grade AC (DODAC 1305-A543)
Cartridge, Cal .50, APIT, M20, Linked with M2 Link, Grade MG (DODAC 1305-A544)
Cartridge, Cal .50, Tracer, M17, Grade MG (DODAC 1305-A571)
Cartridge, Cal .50, Tracer, M17, Linked with M2 Link, Grade AC (DODAC 1305-A572)
Cartridge, Cal .50, Spotter-Tracer, M48A2 (DODAC 1305-A574)
Cartridge, Cal .50, Linked, 4 API M8, APIT M20 (DODAC 1305-A576)
Cartridge, Cal .50, Linked, 4 API M8, 1 APIT M20 (DODAC 1305-A577)
Cartridge, Cal .50, APIT M20 Linked (DODAC 1305-A585)
Cartridge, Cal .50, Linked, 4 API M8, 1 APT-T, M20 (DODAC 1305-A587)
Cartridge, Cal .50, Linked, 4 API M8, 1 APIT M20 (DODAC 1305-A589)

Incendiary Item

Burster, Incendiary, Field, M4 without Fuze (DODAC 1345-K010)

Demolition Item

Charge, Propelling, Earth Rod, M12, with Primer M44 (DODAC 1375-M405)

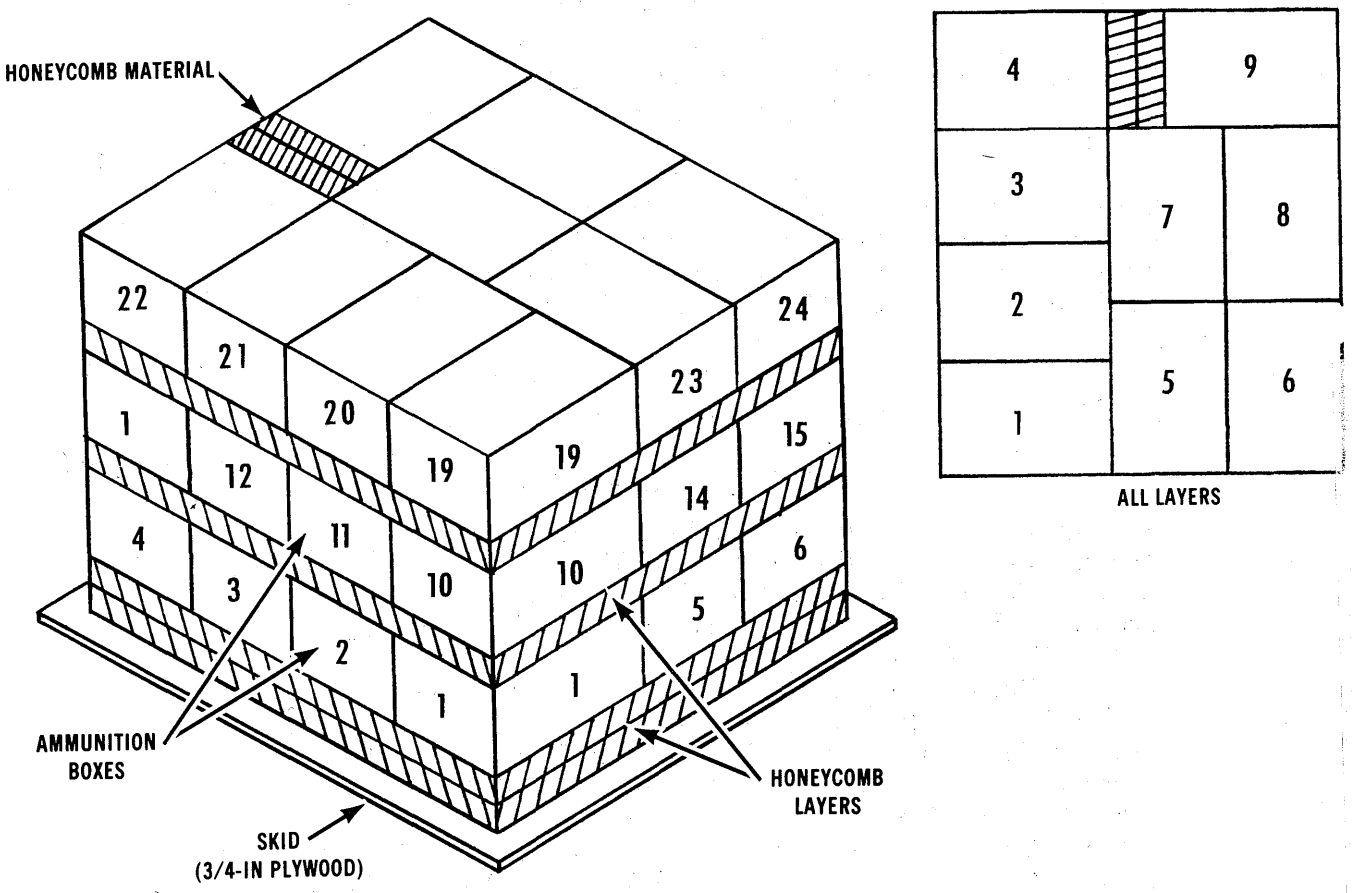


Figure 2-2

The following ammunition items are rigged in an A-22 cargo bag for low-velocity airdrop as shown in figure 2-2.

7.62-Millimeter Ammunition

Cartridge, 7.62-mm, M62, Linked 800/Box (DODAC 1305-A137)
Cartridge, 7.62-mm, Ball, M80, Linked 800/Box (DODAC 1305-A143)
Cartridge, 7.62-mm, Tracer, M62, Linked 800/Box (DODAC 1305-A146)

.30-Caliber Ammunition

Cartridge, Cal .30. Ball, M2, Clipped 768/Box (DODAC 1305-A216)
Cartridge, Cal .30, Tracer, M1 or M25 Clipped, 768/Box (DODAC 1305-A234)

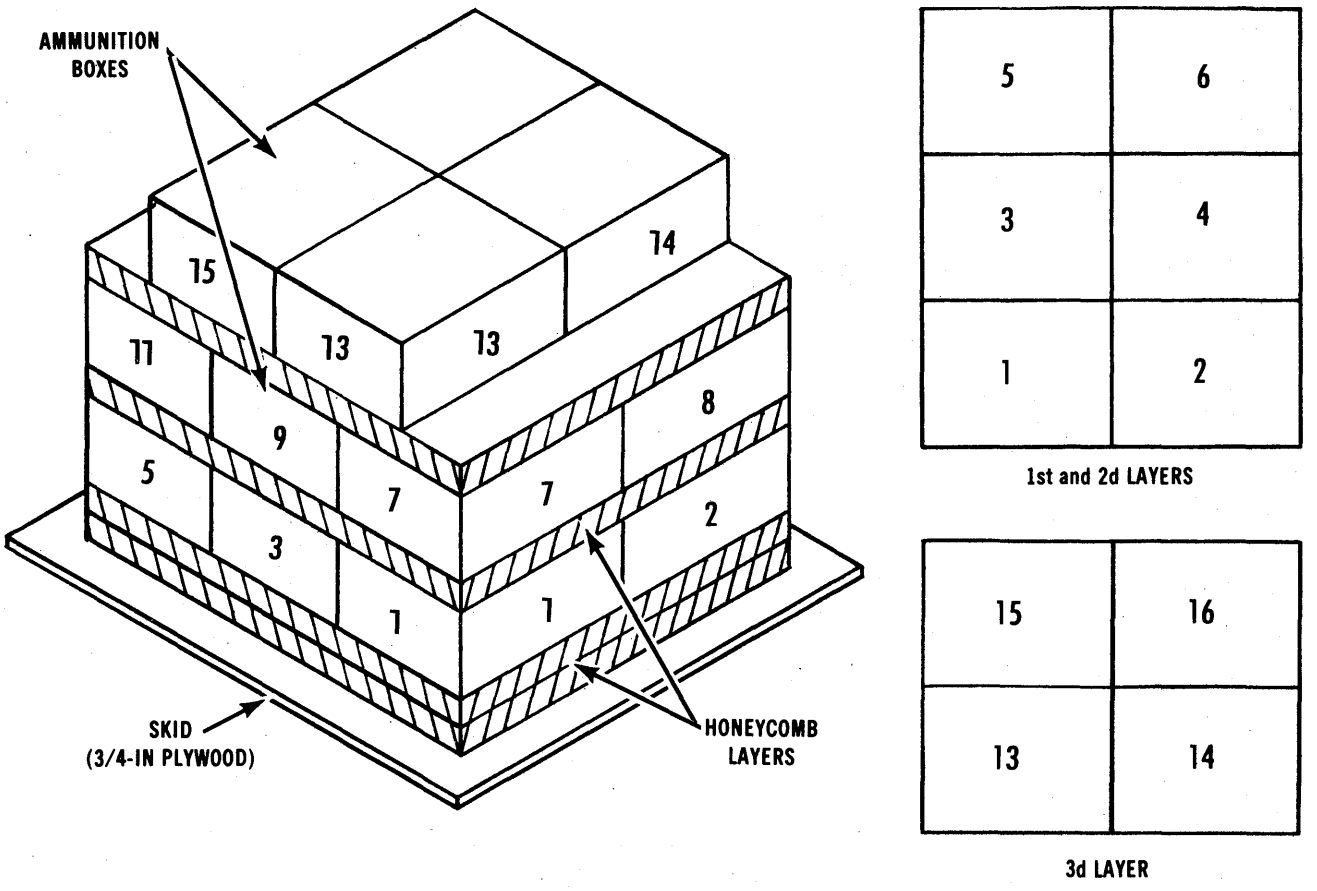


Figure 2-3

The following ammunition items are rigged in an A-22 cargo bag for low-velocity airdrop as shown in figure 2-3.

7.62-Millimeter Ammunition

Cartridge, 7.62-mm, Linked, 9-ball M80, 1 TR, XM276 (DODAC 1305-A163)
Cartridge, 7.62-mm, Linked, 9-ball M80, 1 TR, M62 (DODAC 1305-A165)

.30-Caliber Ammunition

Cartridge, Cal .30, AP API, CTN, Grade R (DODAC 1305-A201)
Cartridge, Cal .30, AP API, CTN, Grade MG (DODAC 1305-A202)

.50-Caliber Ammunition

Cartridge, Cal .50, APIT, M20, Carton, Grade MG (DODAC 1305-A542)

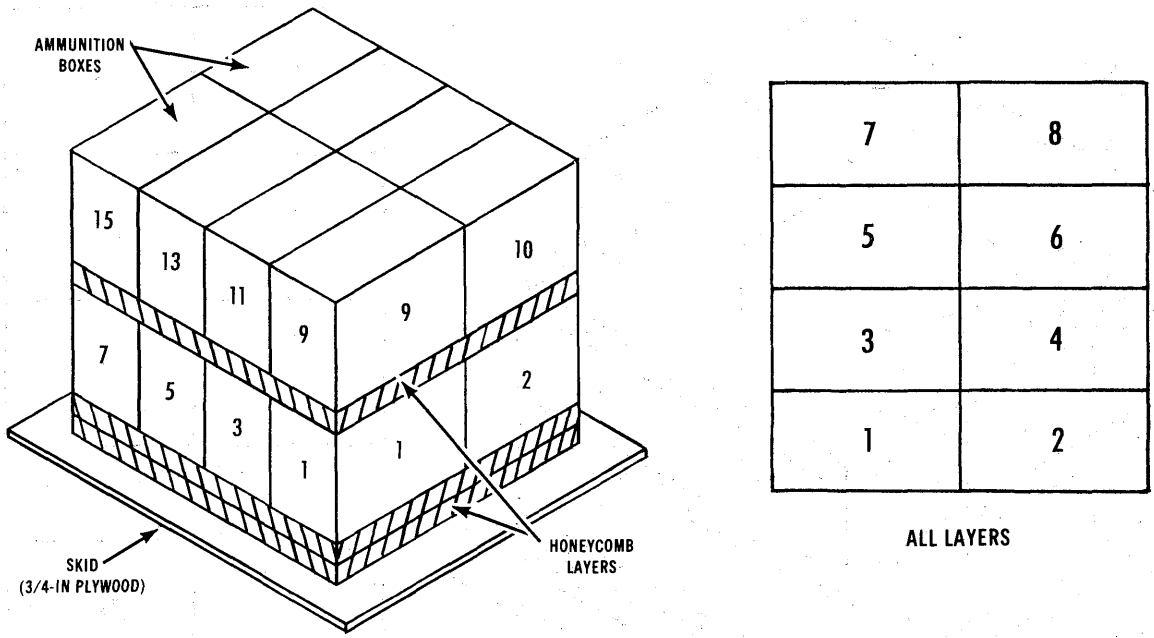


Figure 2-4

The following ammunition items are rigged in an A-22 cargo bag for low-velocity airdrop as shown in figure 2-4.

.30-Caliber Ammunition

Cartridge, Cal .30, Ball, M2, Clipped (DODAC 1305-A214)
Cartridge, Cal .30, Tracer, M1, Clipped (DODAC 1305-A232)

.32-Caliber Ammunition

Cartridge, Cal .32, Ball, Auto 71, Grain (DODAC 1305-A350)

.38-Caliber Ammunition

Cartridge, Cal .38, Special, Ball, M41 (DODAC 1305-A400)

.50-Caliber Ammunition

Cartridge, Cal .50, API, M8 Carton, Grade MG or API-T, M20 (DODAC 1305-A532)
Cartridge, Cal .50, API, M8 Linked, with M2, Grade MG (DODAC 1305-A534)

.40-Millimeter Ammunition

Cartridge, 40-mm, HEI-T, SD, M3 (DODAC 1310-B559)

Demolition Item

Dynamite, Military, M1 (DODAC 1375-M591)

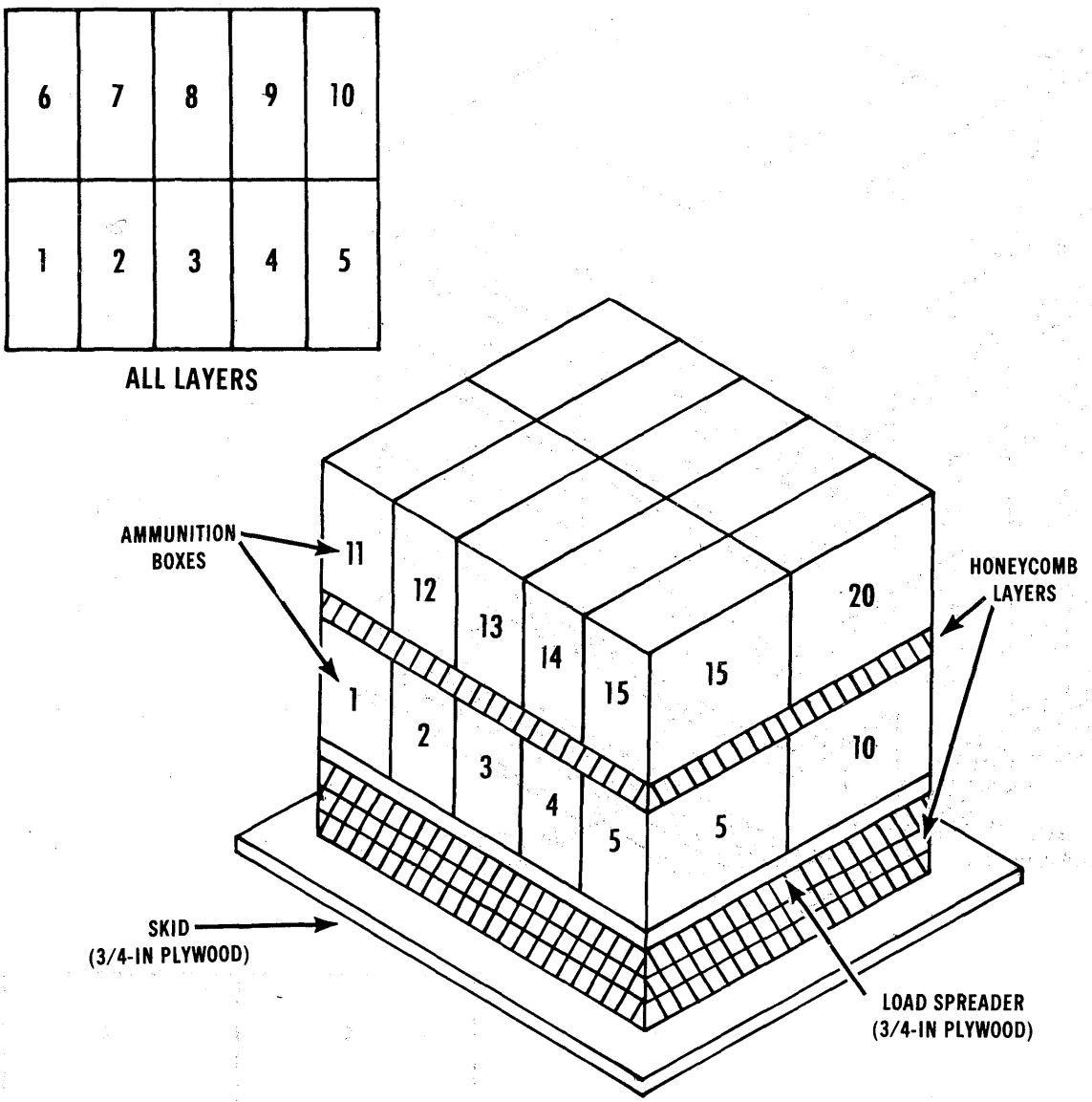
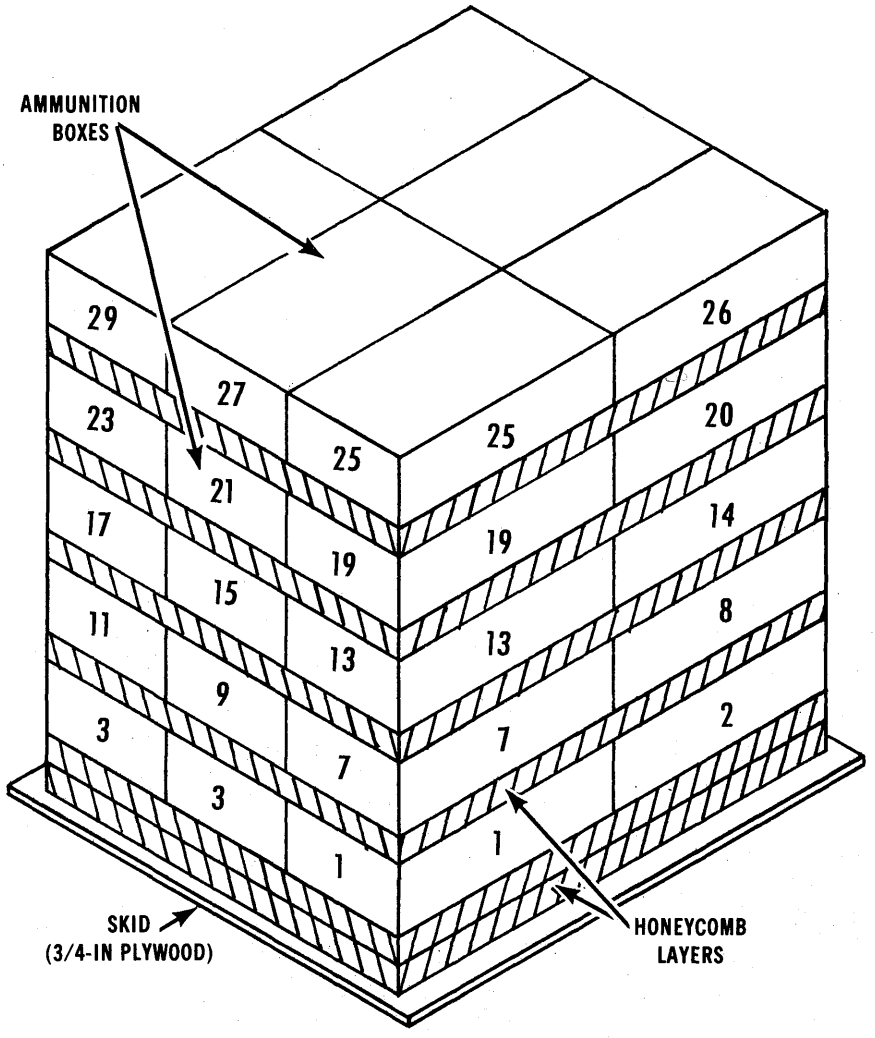


Figure 2-5

The following ammunition items are rigged in an A-22 cargo bag for low-velocity airdrop as shown in figure 2-5.

20-Millimeter Ammunition

Cartridge, 20-mm, Linked, 4-HEI/1 TP-T (DODAC 1305-A653)
Cartridge, 20-mm, Linked, HEI, M56A3 (DODAC 1305-A655)
Cartridge, 20-mm, Linked, HEAT-SD, M246 (DODAC 1305-A792)


AMMUNITION BOXES
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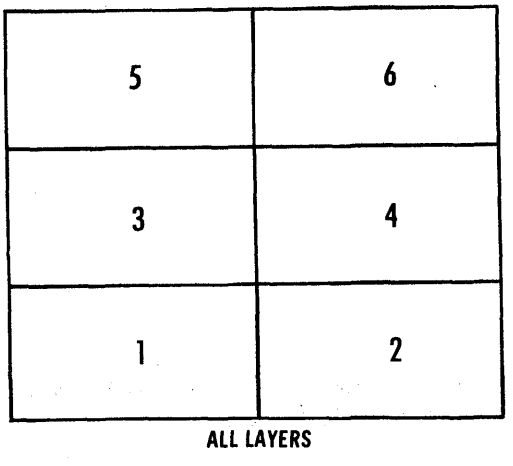
SKID (3/4-IN PLYWOOD)
HONEYCOMB LAYERS


5
6
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1
2
ALL LAYERS

Figure 2-6

The following ammunition items are rigged in an A-22 cargo bag for low-velocity airdrop as shown in figure 2-6.

40-Millimeter Ammunition

Cartridge, 40-mm, HEDP, M33 (DODAC 1310-B470)
Cartridge, 40-mm, HE, M430 (DODAC 1310-B542)
Cartridge, 40-mm, HE, Linked, M383E1 (DODAC 1310-B571)
Cartridge, 40-mm, HE, Linked, M384 (DODAC 1310-B572)

81-Millimeter Ammunition

Caution must be used after airdrop of 81-mm ammunition since possible detonation and drop zone contamination may occur.

Cartridge, 81-mm, HE, M362 (DODAC 1315-C222)
Cartridge, 81-mm, HE, M372 (DODAC 1315-C223)
Cartridge, 81-mm, HE, M43A1 (DODAC 1315-C225)
Cartridge, 81-mm, HE, M374A2 (DODAC 1315-C236)
Cartridge, 81-mm, HE, M374A2 with Fuze M524A5 (DODAC 1315-C256)
Cartridge, 81-mm, HE, M374A2 with Fuze M524A6 (DODAC 1315-C256)
Cartridge, 81-mm, HE, M374A2 with Fuze M526 (DODAC 1315-C256)
Cartridge, 81-mm, HE, M374A2 with Fuze M567 (DODAC 1315-C256)
Cartridge, 81-mm, HE, M374A2 with Fuze M716 (DODAC 1315-C256)
Cartridge, 81-mm, Smoke, WP, M375A2 with Fuze PD 524A6 (DODAC 1315-C276)
Cartridge, 81-mm, Smoke, WP, M375A2 with Fuze M526 (DODAC 1315-C276)
Cartridge, 81-mm, Smoke, WP, M375A2 without Fuze (DODAC 1315-C276)

Grenades

Grenade, Hand, Fragmentation, M26A2 (DODAC 1330-G889)
Grenade, Hand, Fragmentation, M26, or M26A1 (DODAC 1330-G890)

Mines

The M14 Mine will contaminate the drop zone in the event of a parachute malfunction.

Mine, Antipersonnel, MN, M14 (DODAC 1345-K121)
Mine, Antitank, HEAT, Heavy M15 with Fuze M603 (DODAC 1345-K180)

Demolition Items

Charge, Demolition, Chain, M1, Eight 2 1/2-lb Telrytol Charge Strung on Detonating Cord (DODAC 1375-M035)
Charge, Demolition, Block, M2 (DODAC 1375-M036)

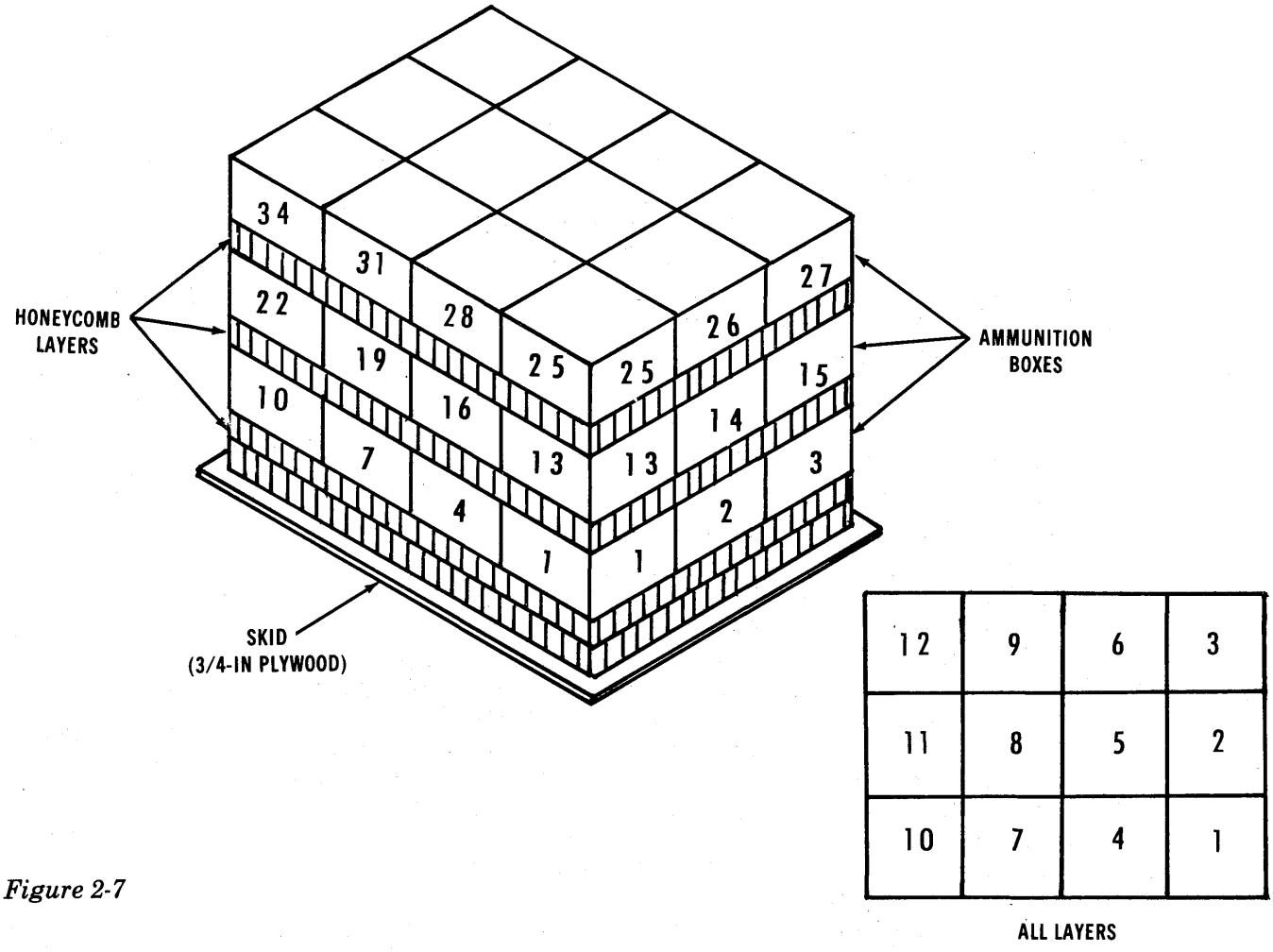

Figure 2-7

The following ammunition items are rigged in an A-22 cargo bag for low-velocity airdrop as shown in figure 2-7.

40-Millimeter Ammunition

Cartridge, 40-mm, White Star, M583A1 (DODAC 1310-B535)

Grenades

Cartridge, Grenade, Rifle, NATO, 7.62-mm, M64 (DODAC 1330-G839)
Grenade, Hand, Incendiary, TH-3, AN-M14, with Fuze M201A1 (DODAC 1330-G900)

Mines

Mine, Antipersonnel, M16A1, with Fuze Mine M605 (DODAC 1345-K092)
Mine, Antipersonnel, M18A1, with Accessories (DODAC 1345-K143)

Demolition Items

Charge, Demolition Block, Comp C4 1 1/4-lb, M112 (DODAC 1375-M023)
Firing Device, Demolition, M3 Pull Release Type (DODAC 1375-M629)
Charge, Assembly, Demolition, M37 (DODAC 1375-M756)

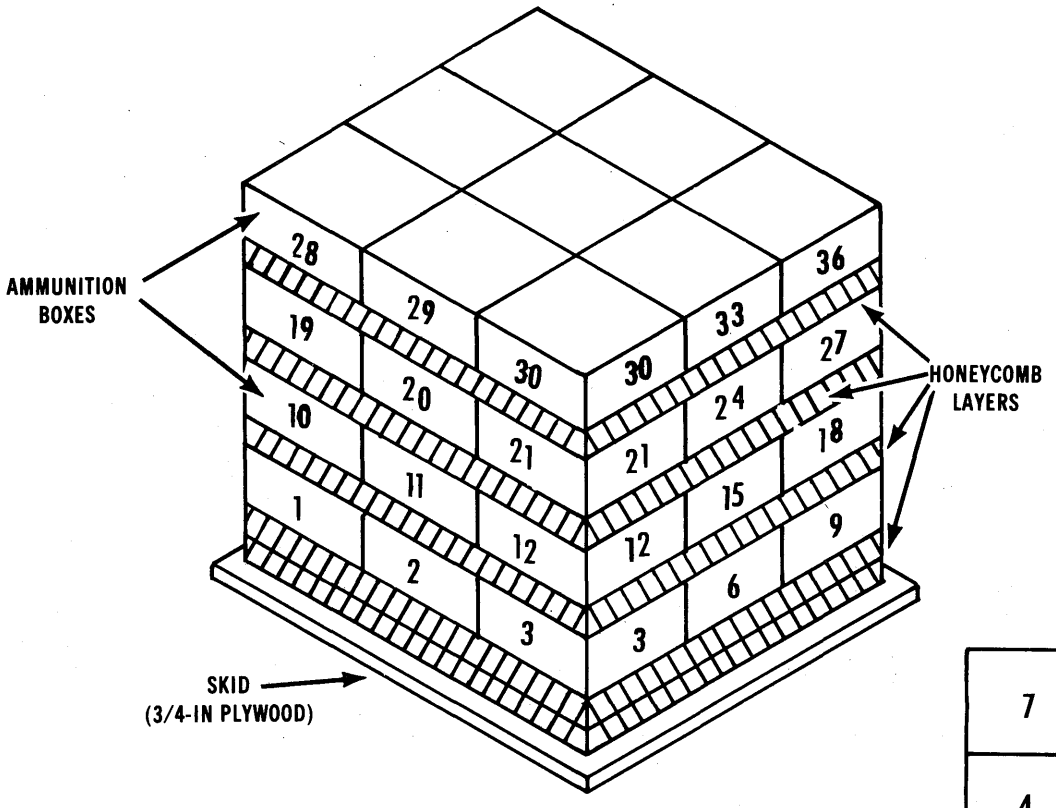

Figure 2-8

The following ammunition items are rigged in an A-22 cargo bag for low-velocity method of airdrop as shown in figure 2-8.

40-Millimeter Ammunition

Cartridge, 40-mm, HEDP, M433 (DODAC 1310-B546)

60-Millimeter Ammunition

Cartridge, 60-mm, HE, M449A4 (DODAC 1310-B632)

Demolition Items

Coupling Base, Firing Device, with Primer, Percussion, M27 (DODAC 1375-M327)

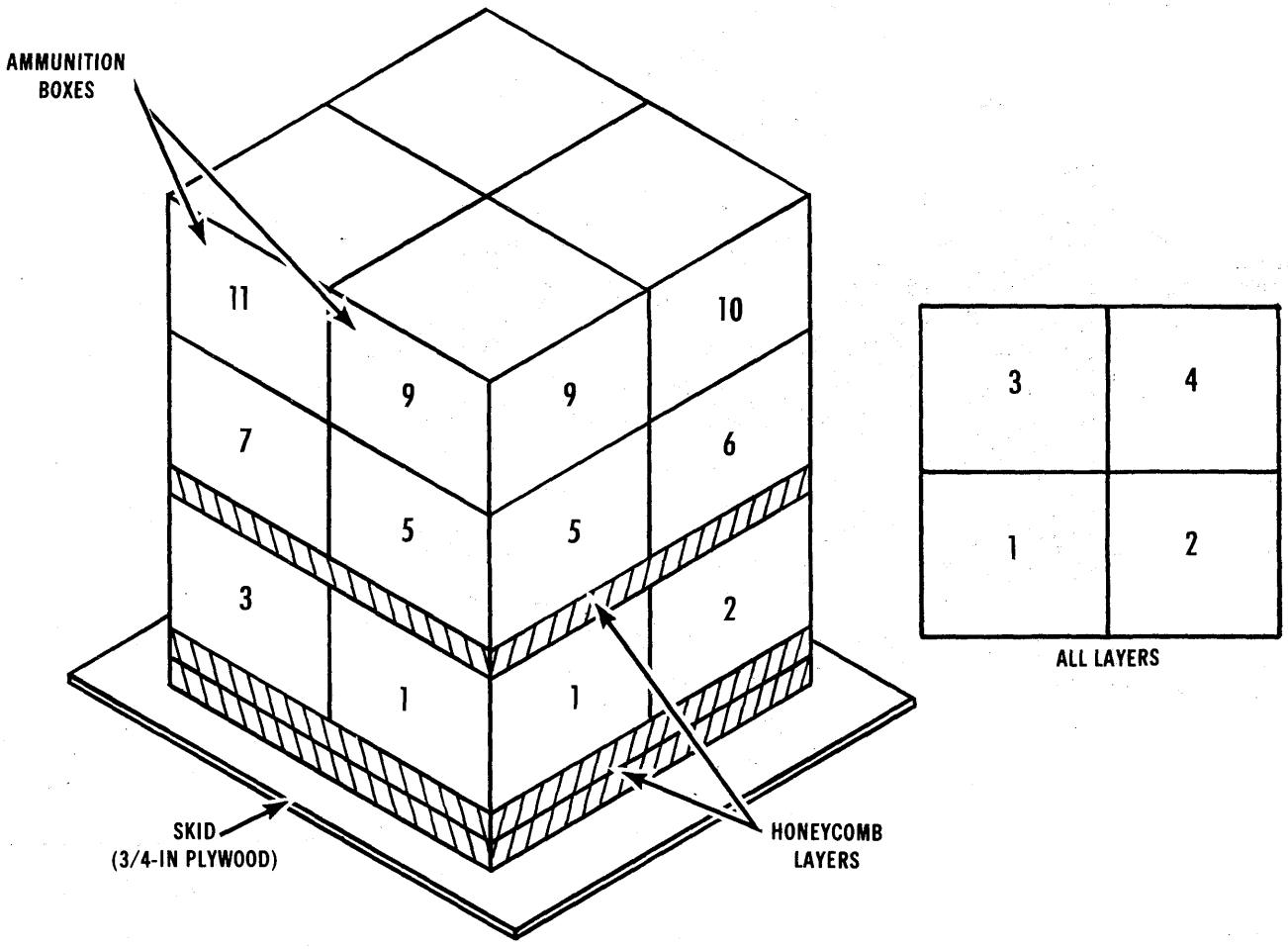

Figure 2-9

The following ammunition items are rigged in an A-22 cargo bag for low-velocity airdrop as shown in figure 2-9.

40-Millimeter Ammunition

Cartridge, 40-mm, AP-T, M81 (DODAC 1310-B552)
Cartridge, 40-mm, HE-T, SD, M3 MK11, MK2 (DODAC 1310-B562)

Signal Items

Signals, personnel distress, XM185 and XM186 will detonate on ground impact in the event of a parachute malfunction.

Signal Kit, Personnel Distress, XM185 (DODAC 1370-L116)
Signal Kit, Personnel Distress, XM186 (DODAC 1370-L117)

Demolition Items

Charge, Demolition, Roll Type, XM-186 (DODAC 1375-M060)
Cap, Blasting, Special Electric, M6 (DODAC 1375-M130)

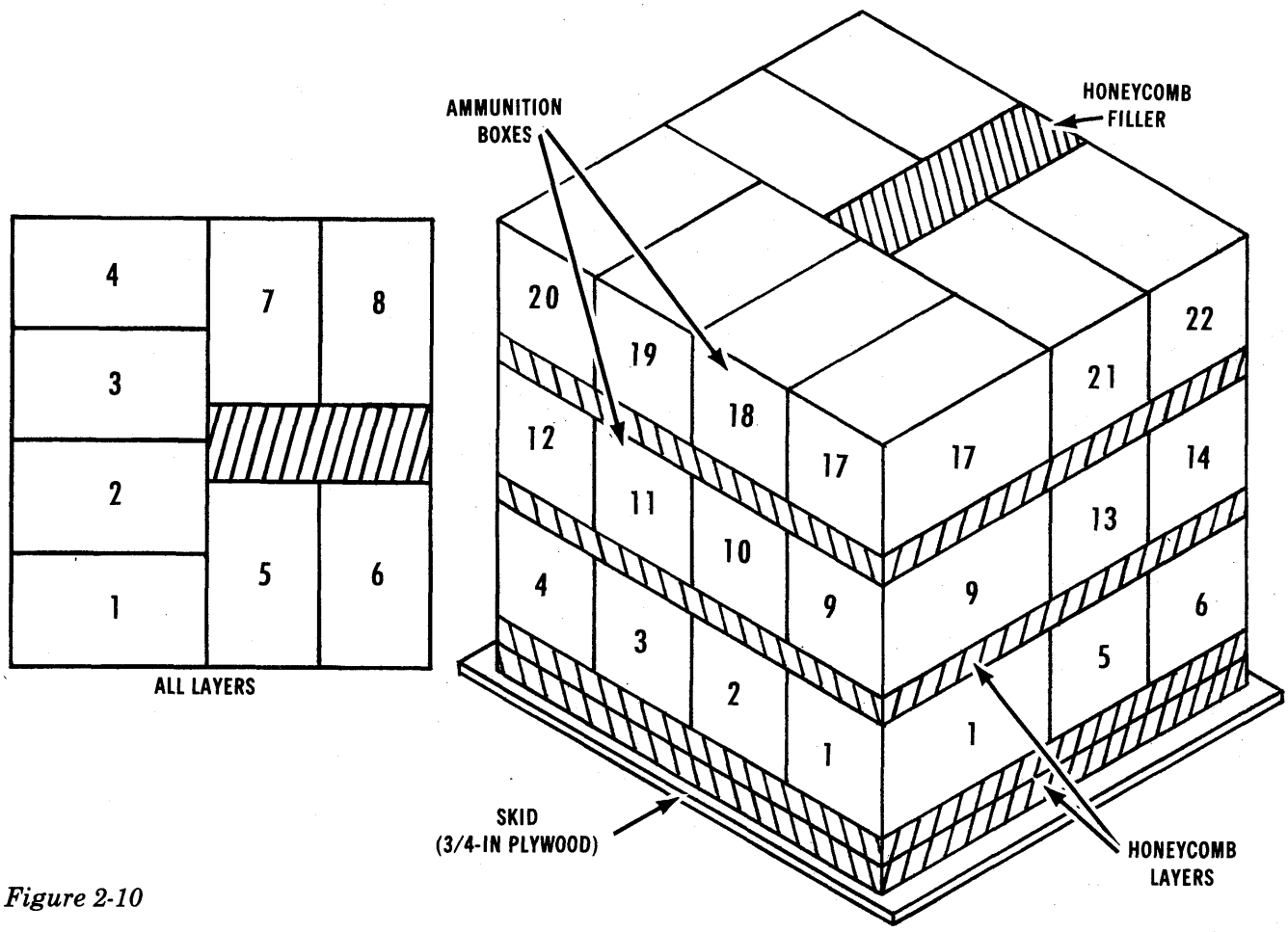

Figure 2-10

The following ammunition items are rigged in an A-22 cargo bag for low-velocity airdrop as shown in figure 2-10.

60-Millimeter Ammunition

Cartridge, 60-mm, Illuminating, M83A3 (DODAC 1310-B627)
Cartridge, 60-mm, Smoke, WP, M302A1 (DODAC 1310-B630)

Grenade

Grenade, Hand Fragmentation, M67 with Fuze (DODAC 1330-G881)

Signal Items

Signal, Illuminating, A/C, Single Star, AN-43A2, Red (DODAC 1370-L231)
Signal, Illuminating, A/C, Single Star, AN-M45A2, Green (DODAC 1370-L233)

Demolition Item

Charge, Demolition, Shaped, 40-lb, M3 (DODAC 1375-M421)

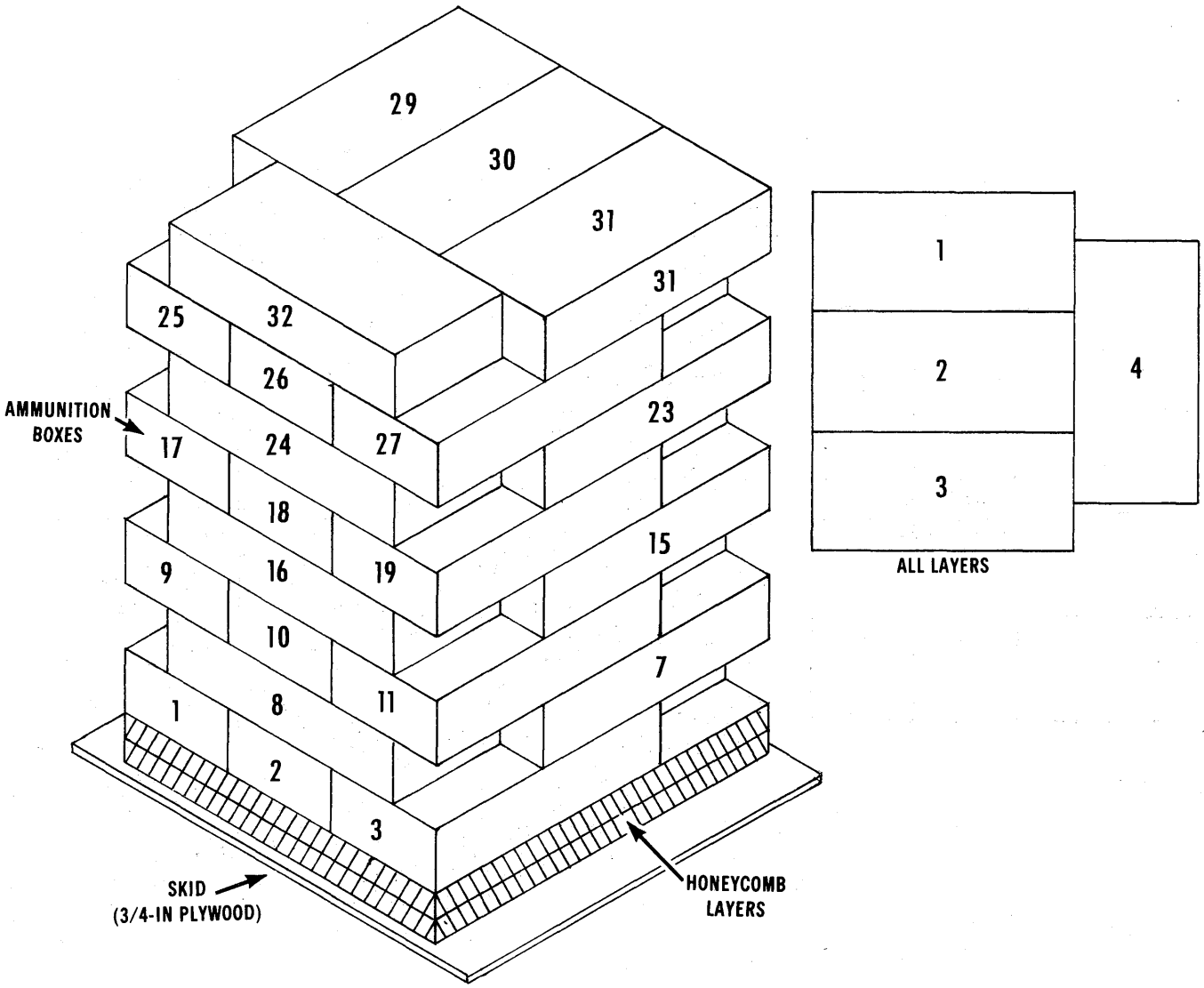

Figure 2-11

The following ammunition item is rigged in an A-22 cargo bag for low-velocity airdrop as shown in figure 2-11.

81-Millimeter Ammunition

Caution must be used after airdrop of 81-mm ammunition since possible detonation and drop zone contamination may occur.

Cartridge, 81-mm, Illuminating, M301A3 (DODAC 1315-C226)

10	5
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8	3
7	2
6	1

ALL LAYERS

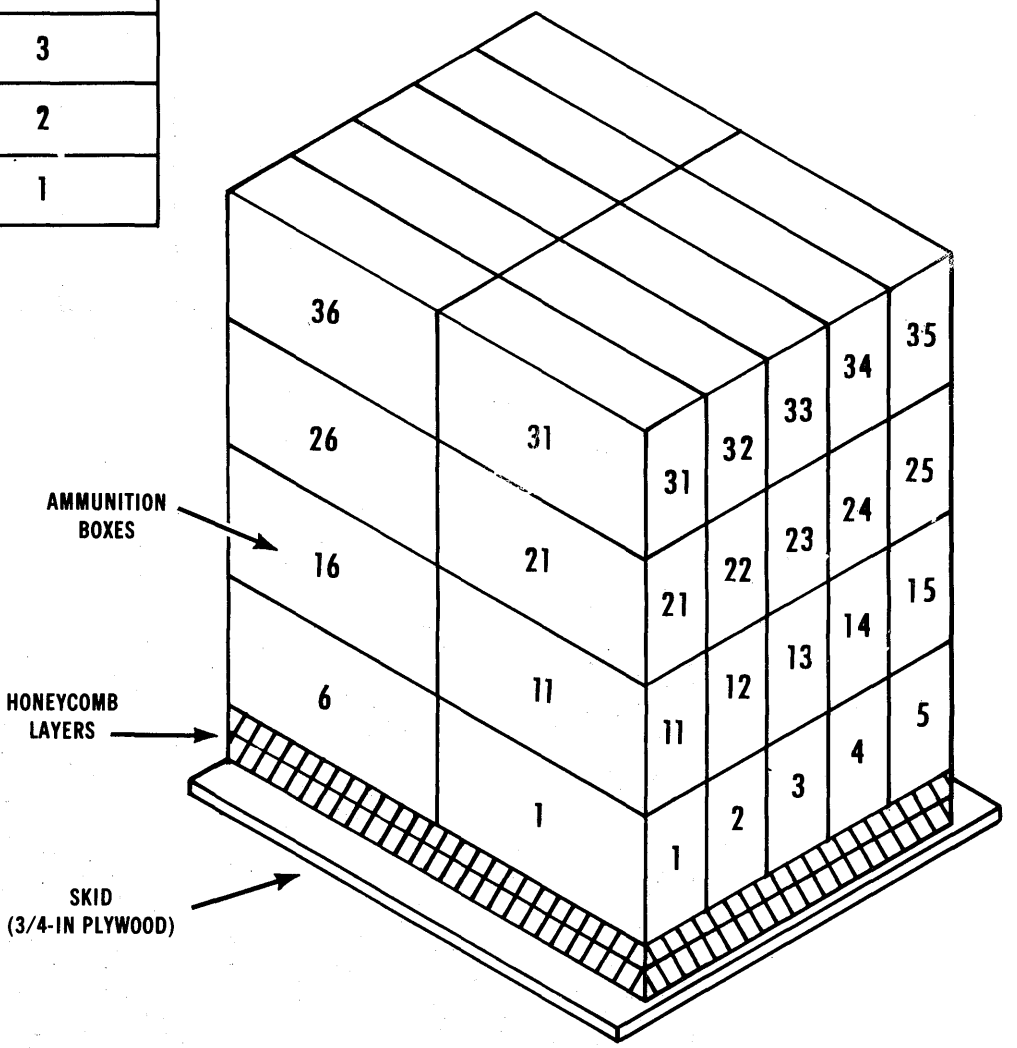


Figure 2-12

The following ammunition items are rigged in an A-22 cargo bag for low-velocity airdrop as shown in figure 2-12.

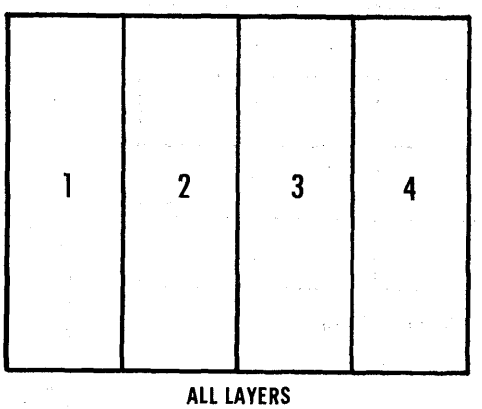
81-Millimeter Ammunition

Caution must be used after airdrop of 81-mm ammunition since possible detonation and drop zone contamination may occur.

Cartridge, 81-mm, Smoke, WP, M57 (DODAC 1315-C230)

Mine

Activator, Mine, AR, M1 (DODAC 1345-K001)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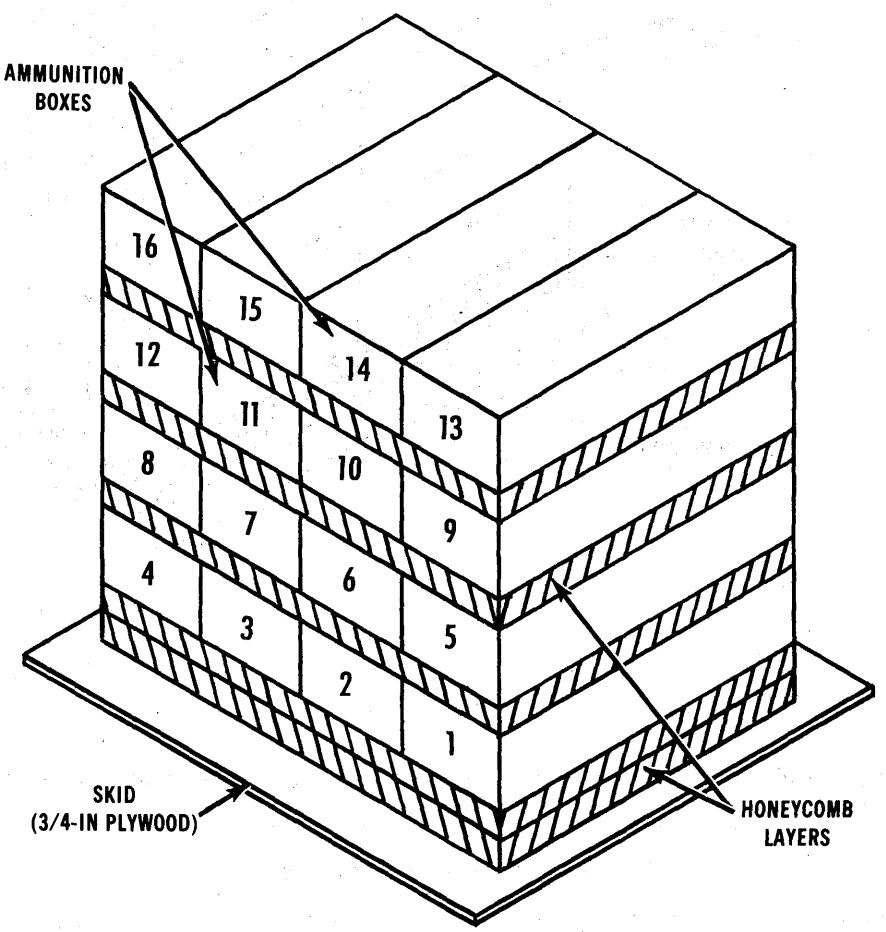
ALL LAYERS


AMMUNITION BOXES
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HONEYCOMB LAYERS

Figure 2-13

The following ammunition items are rigged in an A-22 cargo bag for low-velocity airdrop as shown in figure 2-13.

90-Millimeter Ammunition

90-mm ammunition will contaminate the drop zone in the event of a parachute malfunction.

Cartridge, 90-mm, WP, M313C (DODAC 1315-C258)
Cartridge, 90-mm, APC-T, M82 (DODAC 1315-260)
Cartridge, 90-mm, HE, M71 (DODAC 1315-C265)
Cartridge, 90-mm, HE, M71 (DODAC 1315-C266)
Cartridge, 90-mm, HE, M71 (DODAC 1315-C267)
Cartridge, 90-mm, Smoke, WP, M313 (DODAC 1315-C273)
Cartridge, 90-mm, APERS-T, M580 (DODAC 1315-C275)
Cartridge, 90-mm, HE-T, M71A1 with Fuze PD, M557 (DODAC 1315-C280)
Cartridge, 90-mm, AP-T, M318 or M318A1 (DODAC 1315-C285)
Cartridge, 90-mm, HEP-T, T142E3 (DODAC 1315-C292)
Cartridge, 90-mm, HEAT, M431 (DODAC 1315-C294)
Cartridge, 90-mm, Canister, M377 (DODAC 1315-C601)

105-Millimeter Ammunition

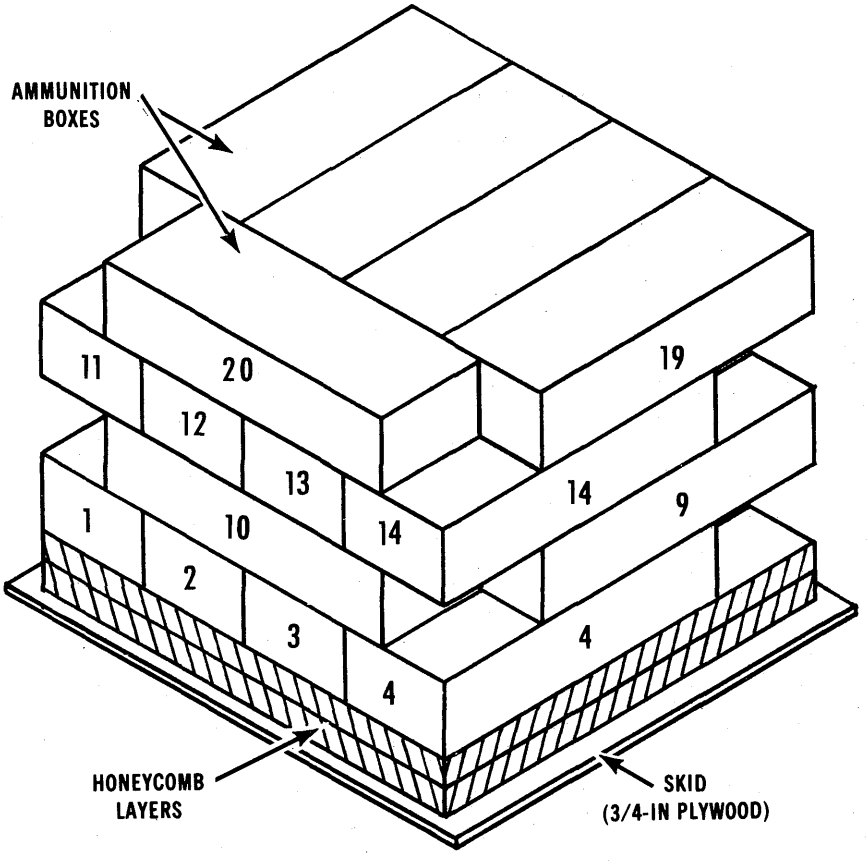
Cartridge, 105-mm, HE, M1 (DODAC 1315-C443)
Cartridge, 105-mm, HE, M1 (DODAC 1315-C444)
Cartridge, 105-mm, HE, M1 (DODAC 1315-C445)
Cartridge, 105-mm, HEP-T, M327 (DODAC 1315-C448)
Cartridge, 105-mm, Illuminating, M314A3 (DODAC 1315-C449)
Cartridge, 105-mm, Smoke, HC, BE, M84, or M84A1 (DODAC 1315-C452)
Cartridge, 105-mm, Smoke, WP, M60 (DODAC 1315-C454)
Cartridge, 105-mm, HE, M444 (DODAC 1315-C462)
Cartridge, 105-mm, Tactical, CS, M629 (DODAC 1315-C468)
Cartridge, 105-mm, Smoke, WP, M60 (DODAC 1315-C477)
Cartridge, 105-mm, APERS-T, M546, with Fuze MT, M563 (DODAC 1315-C513)

106-Millimeter Ammunition

Cartridge, 106-mm, HEAT, M344A1 (DODAC 1315-C650)
Cartridge, 106-mm, HEP-T, M346A1 (DODAC 1315-C651)
Cartridge, 106-mm, APERS-T, M581 (DODAC 1315-C660)

Demolition Item

Explosive Kit Earth Rod, Set No. 1 (DODAC 1375-M820)


AMMUNITION BOXES
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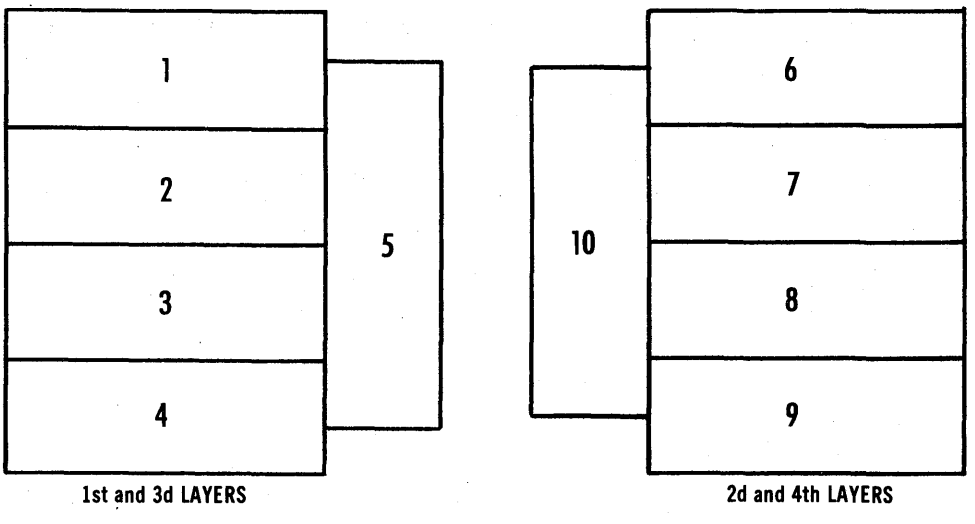
HONEYCOMB LAYERS
SKID (3/4-IN PLYWOOD)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1st and 3d LAYERS
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9
2d and 4th LAYERS

Figure 2-14

The following ammunition items are rigged in an A-22 cargo bag for low-velocity airdrop as shown in figure 2-14.

90-Millimeter Ammunition

90-mm ammunition will contaminate the drop zone in the event of a parachute malfunction.

Cartridge, 90-mm, HEAT, M371 (DODAC 1315-C282)

4.2-Inch Ammunition

In the event of parachute malfunction, 4.2-inch ammunition may detonate on ground impact and contaminate the drop zone. All damaged rounds and containers must be considered dangerous and destroyed in place.

Cartridge, 4.2-in, HE, M329A1 (DODAC 1315-C704)
Cartridge, 4.2-in, HE, M329A1 (DODAC 1315-C705)
Cartridge, 4.2-in, Illuminating, M335A2 (DODAC 1315-C706)
Cartridge, 4.2-in, Smoke, WP, M328A1 (DODAC 1315-C708)

Mine

Mine, Antitank, HE, M21, Heavy with Fuze Combination M607 (DODAC 1345-K181)

Demolition Items

Charge, Demolition, Block, 40-lb Cratering Ammonia Nitrate (DODAC 1375-M039)
Cord, Detonating, Reinforced Pliofilm/Wrapped Waterproof, Type I (DODAC 1375-M456)

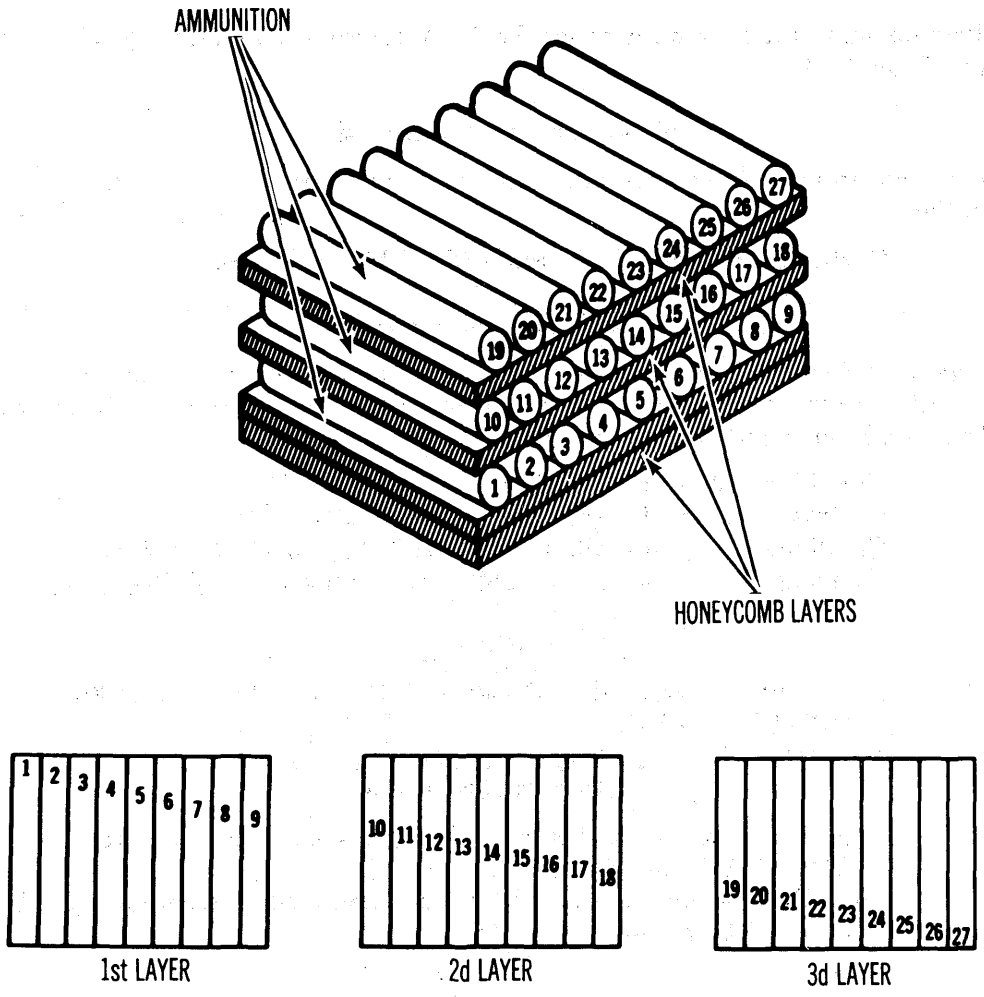


Figure 2-15

The following ammunition item is rigged in an A-22 cargo bag for low-velocity airdrop as shown in figure 2-15.

90-Millimeter Ammunition
(Rigging Fiber Containers)

90-millimeter ammunition will contaminate the drop zone if parachute malfunctions.

Cartridge, 90-mm, HEAT, M371 (DODAC 1315-C282)

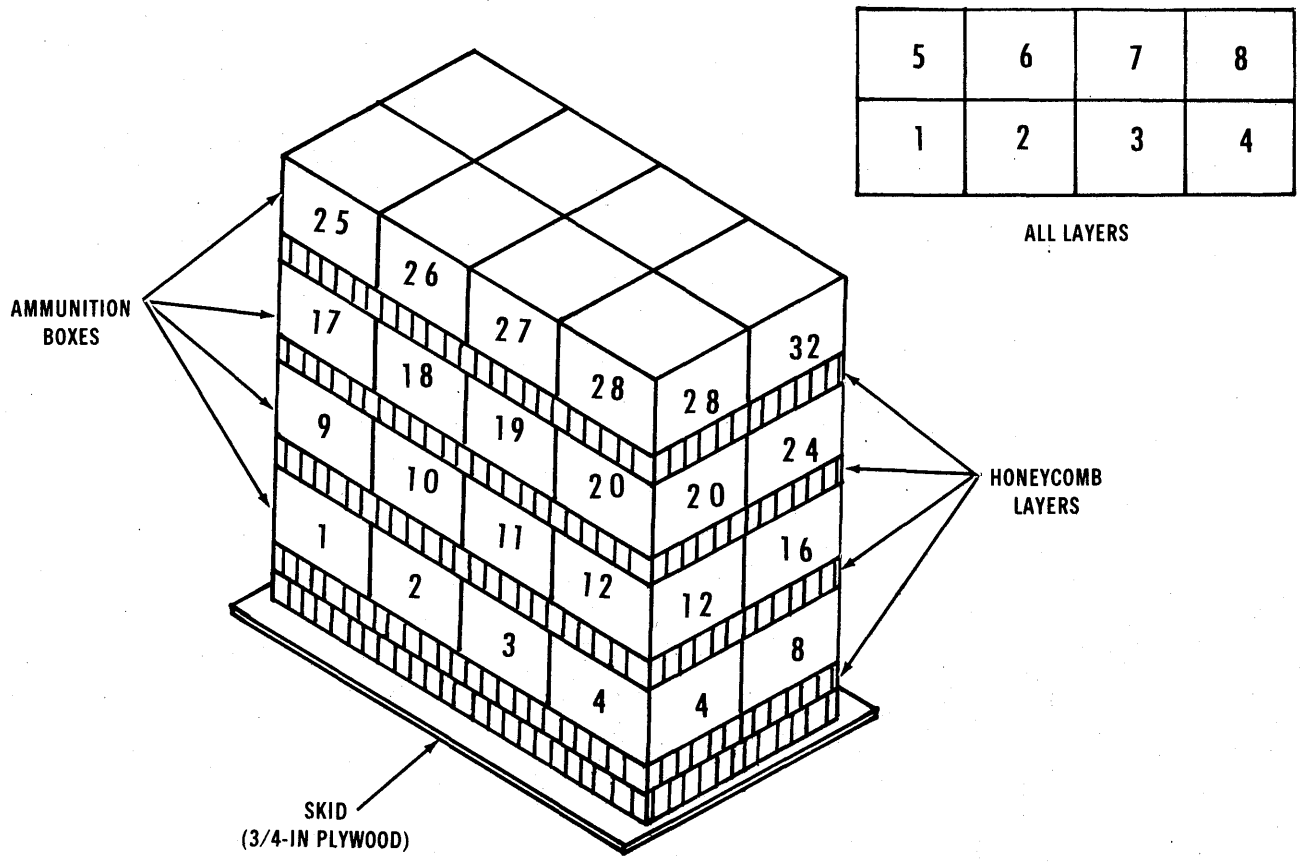


Figure 2-16

The following ammunition items are rigged in an A-22 cargo bag for low-velocity airdrop as shown in figure 2-16.

90-Millimeter Ammunition

90-mm ammunition will contaminate the drop zone if parachute malfunctions.

Cartridge, 90-mm, Canister, APERS, M590 (DODAC 1315-C410)

Grenade

Grenade, Hand, Fragmentation, M33 (DODAC 1330-G888)

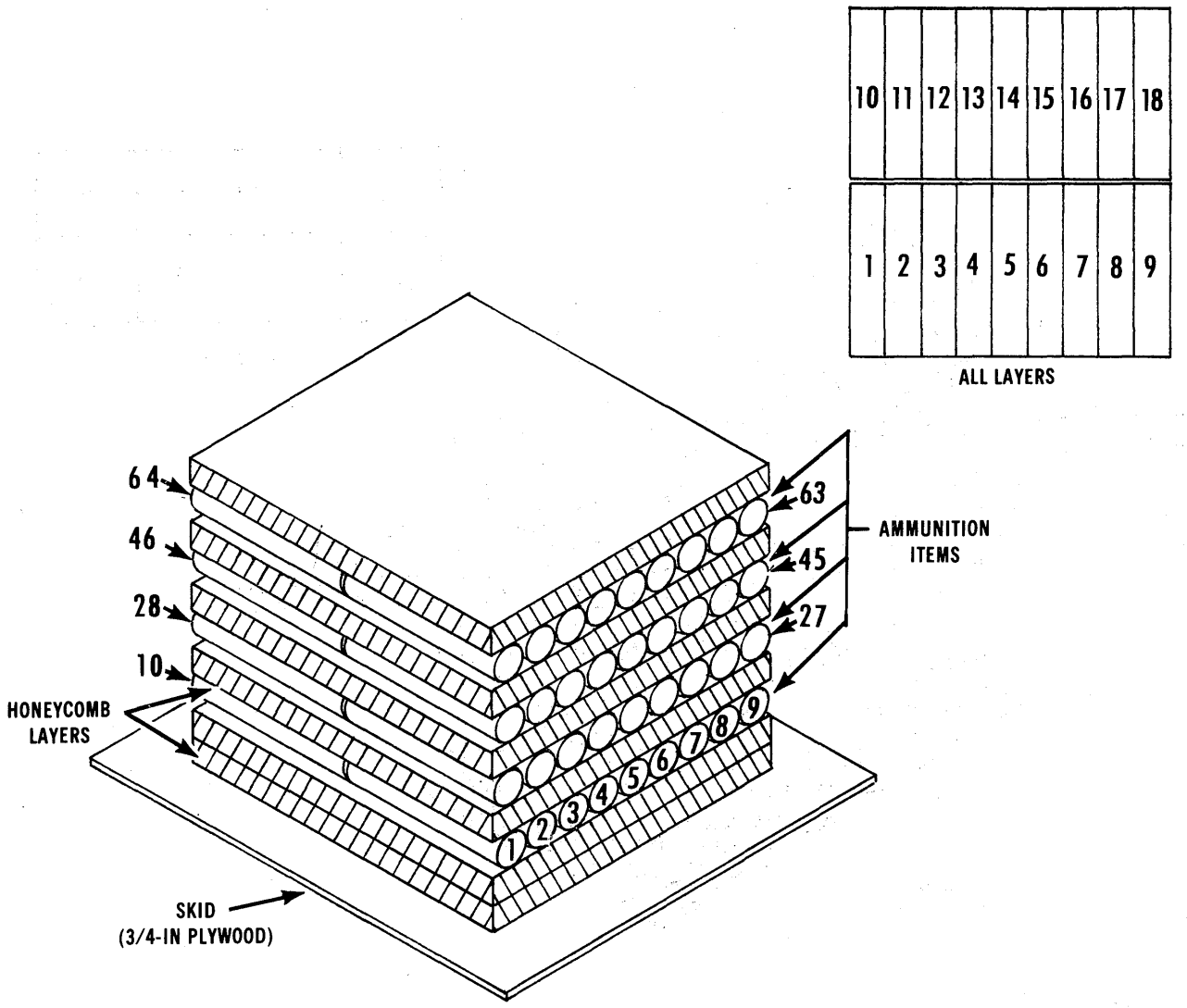


Figure 2-17

The following ammunition item is rigged in an A-22 cargo bag for low-velocity airdrop as shown in figure 2-17.

90-Millimeter Ammunition (Rigging Fiber Containers)

90-mm ammunition will contaminate the drop zone if parachute malfunctions.

Cartridge, 90-mm, Canister, APERS, M590 (DODAC 1315-C410)

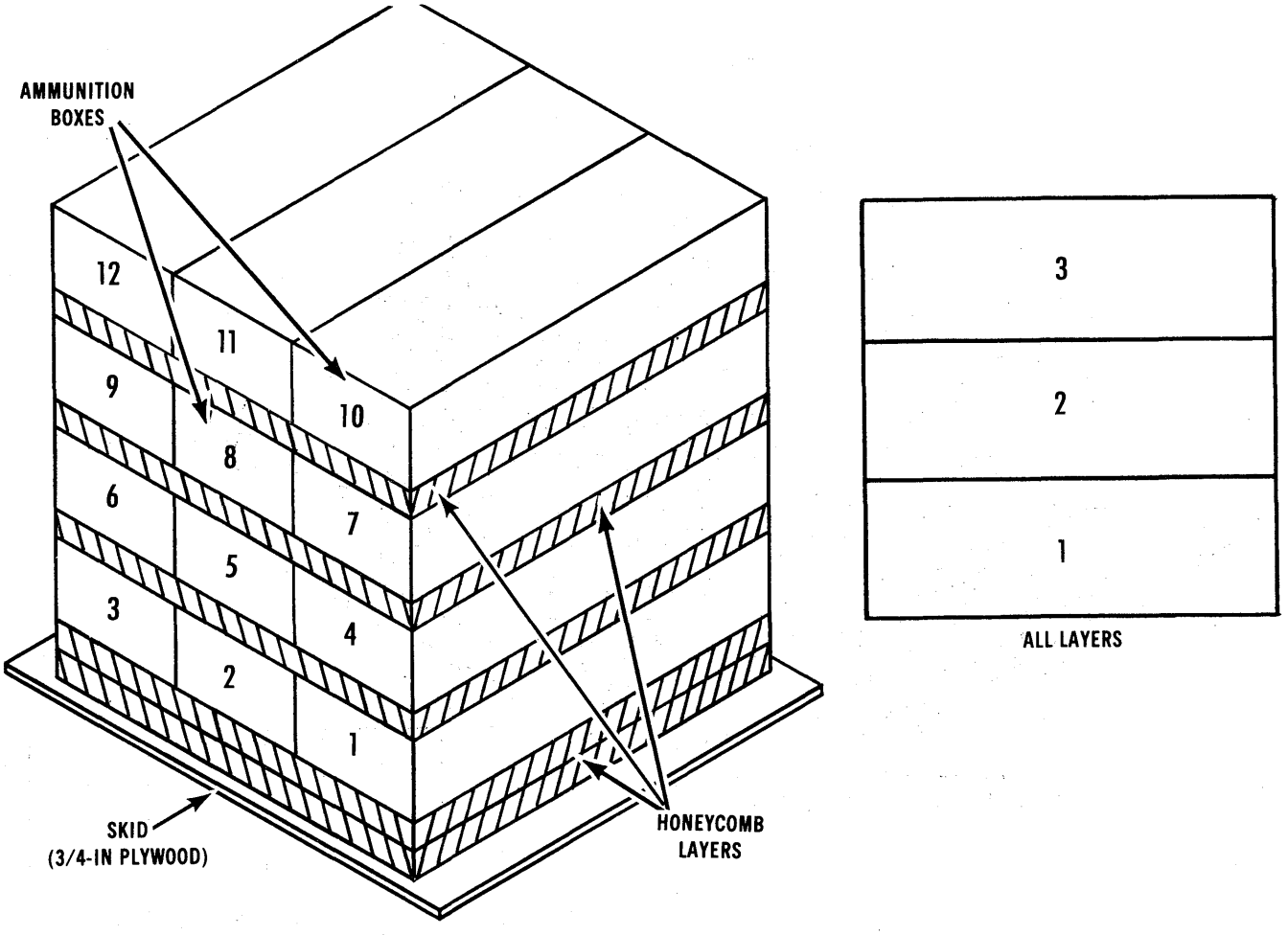


Figure 2-18

The following ammunition items are rigged in an A-22 cargo bag for low-velocity airdrop as shown in figure 2-18.

105-Millimeter Ammunition

Cartridge, 105-mm, HE, XM548E1 (DODAC 1315-C463)
Cartridge, 105-mm, APDS-T, M728 (DODAC 1315-C494)
Cartridge, 105-mm, APDS-T, M392A2 (DODAC 1315-C505)
Cartridge, 105-mm, HEAT-T, M456A1E2 (DODAC 1315-C508)
Cartridge, 105-mm, HEP-T, M393A2 (DODAC 1315-C511)
Cartridge, 105-mm, Smoke, WP-T, M416, with Fuze BD M534A1 (DODAC 1315-C512)
Cartridge, 105-mm, Smoke, WP-T, M416, with Fuze BD M534A1, Steel Case (DODAC 1315-C512)
Cartridge, 105-mm, HEP-T, M393A2 (DODAC 1315-C518)
Cartridge, 105-mm, APER-T, M494, with Fuze M571 (DODAC 1315-C519)

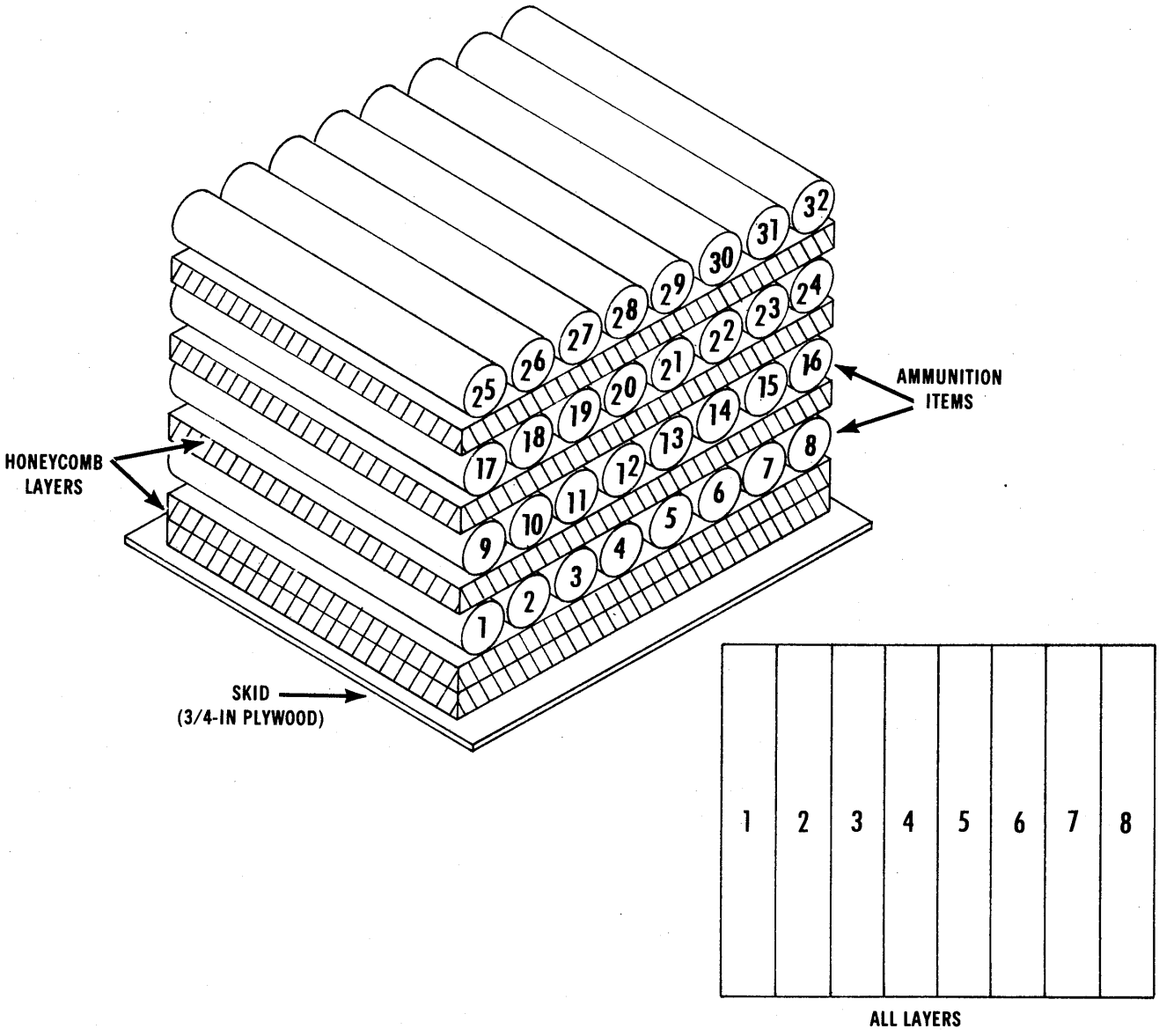


Figure 2-19

The following ammunition items are rigged in an A-22 cargo bag for low-velocity airdrop as shown in figure 2-19.

105-Millimeter Ammunition (Rigging Fiber Containers)

Cartridge, 105-mm, HEAT-T, M456E1 (DODAC 1315-C508)
Cartridge, 105-mm, TP-T, M490 (DODAC 1315-C511)

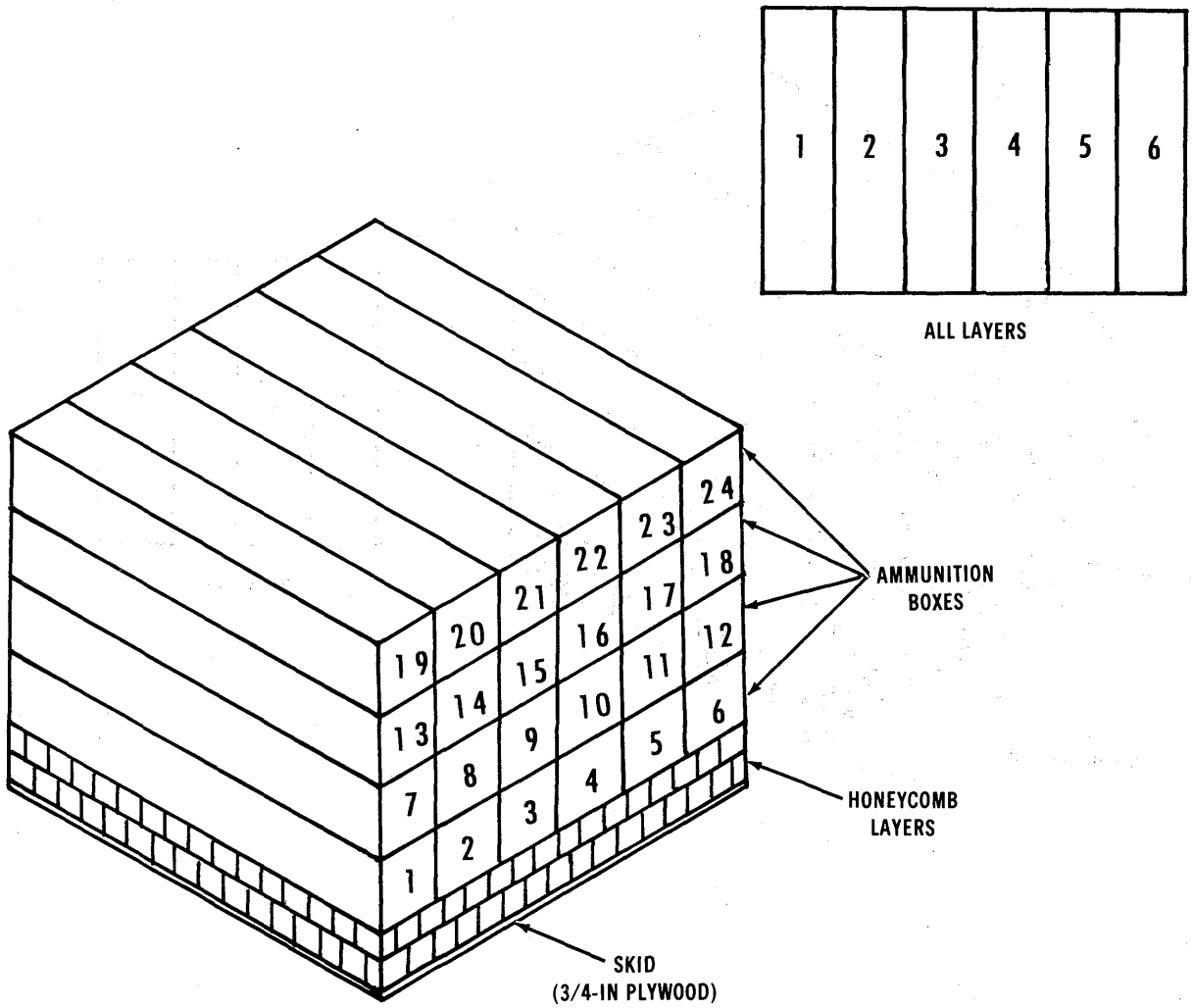


Figure 2-20

The following ammunition item is rigged in an A-22 cargo bag for low-velocity airdrop as shown in figure 2-20.

152-Millimeter Ammunition

Cartridge, 152-mm, TPT, XM411E3 (DODAC 1320-D380)

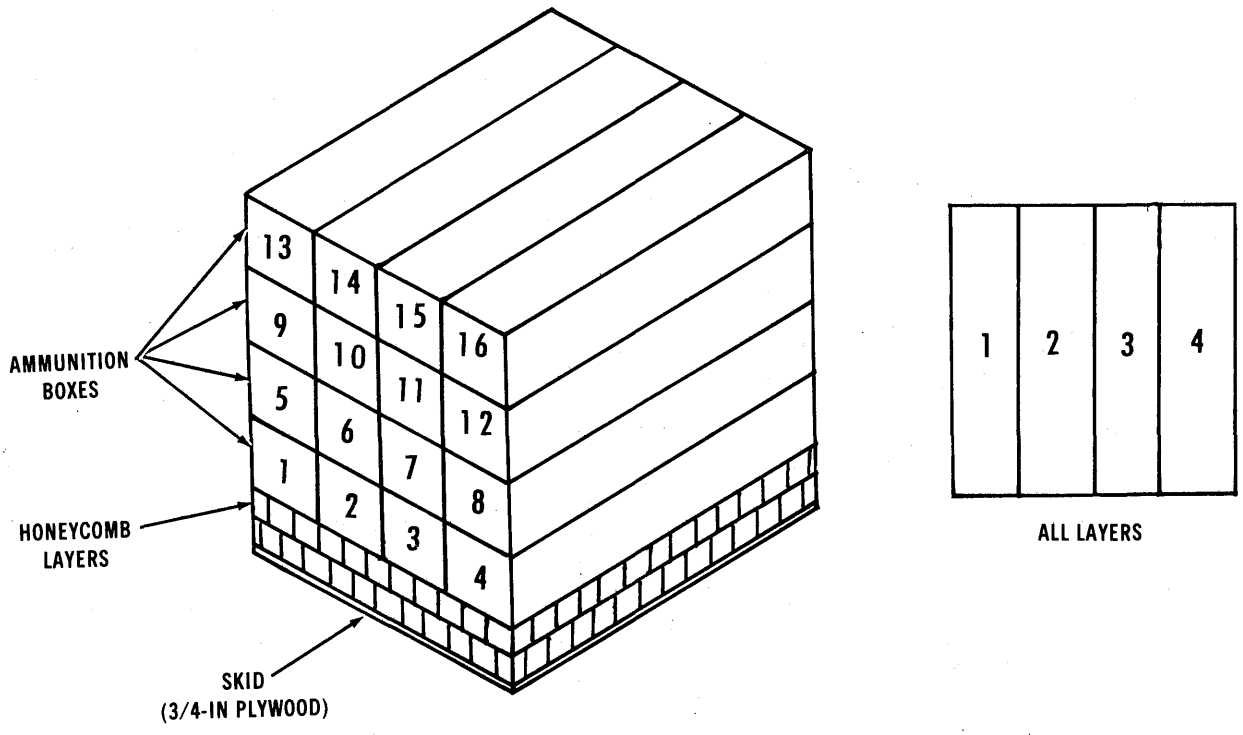


Figure 2-21

The following ammunition items are rigged in an A-22 cargo bag for low-velocity airdrop as shown in figure 2-21.

152-Millimeter Ammunition

Cartridge, 152-mm, HEAT-MP, XM409E6 (DODAC 1320-D381)
Cartridge, 152-mm, Canister, M625A1 (DODAC 1320-D390)

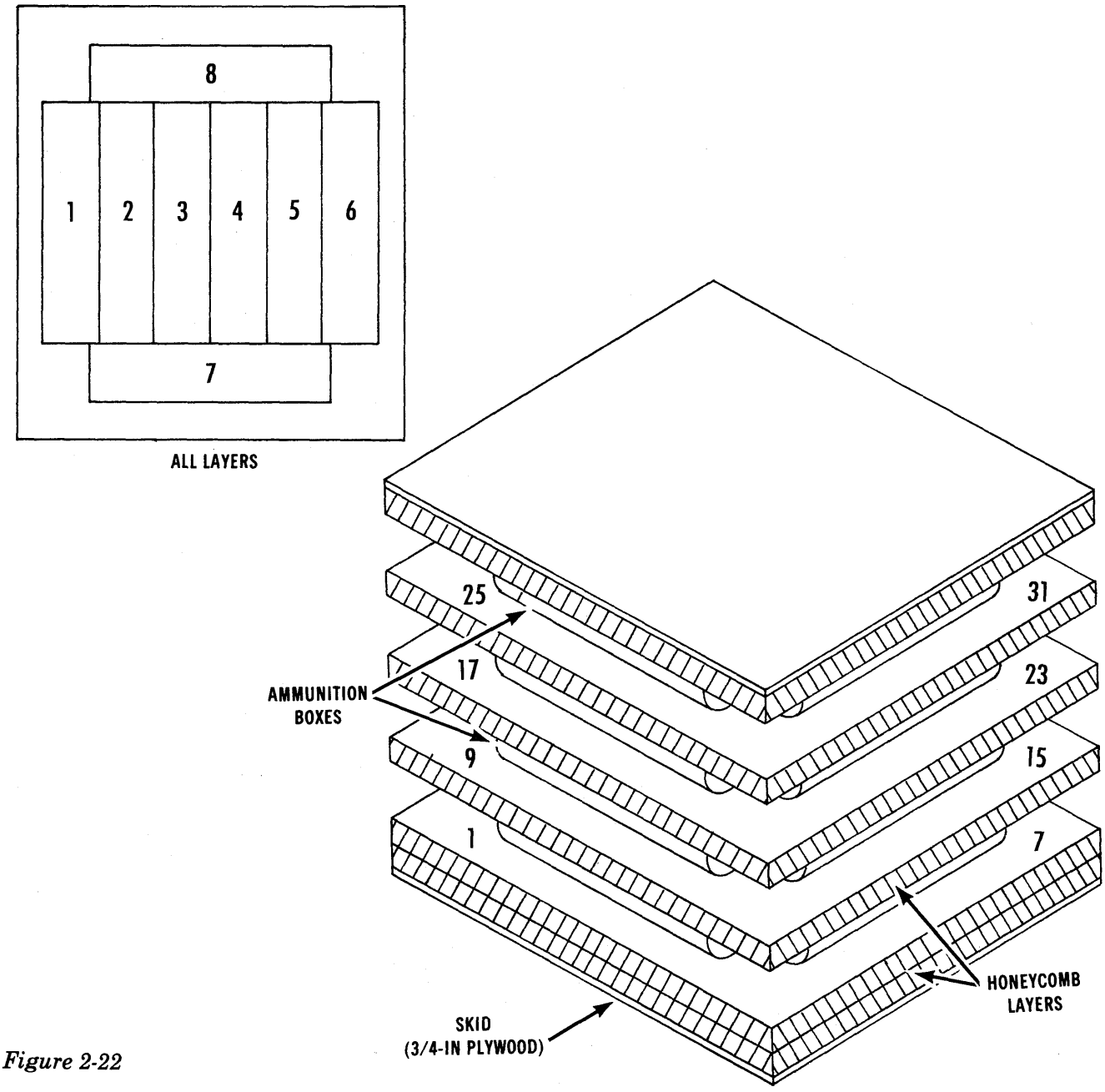
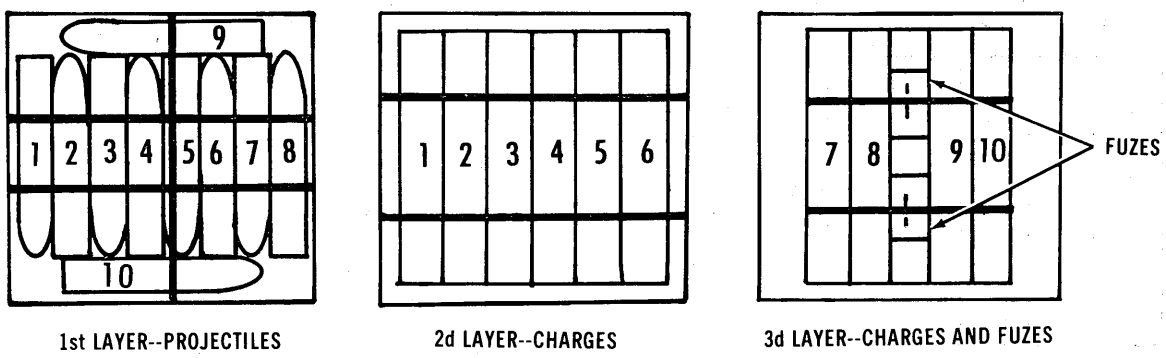


Figure 2-22

The following ammunition items are rigged in an A-22 cargo bag for low-velocity airdrop as shown in figure 2-22.

152-Millimeter Ammunition
(Rigging Fiber Containers)

Cartridge, 152-mm, HEAT-MP, XM409E6 (DODAC 1320-D381)
Cartridge, 152-mm, Canister, M625A1 (DODAC 1320-D390)



1st LAYER--PROJECTILES

2d LAYER--CHARGES

3d LAYER--CHARGES AND FUZES

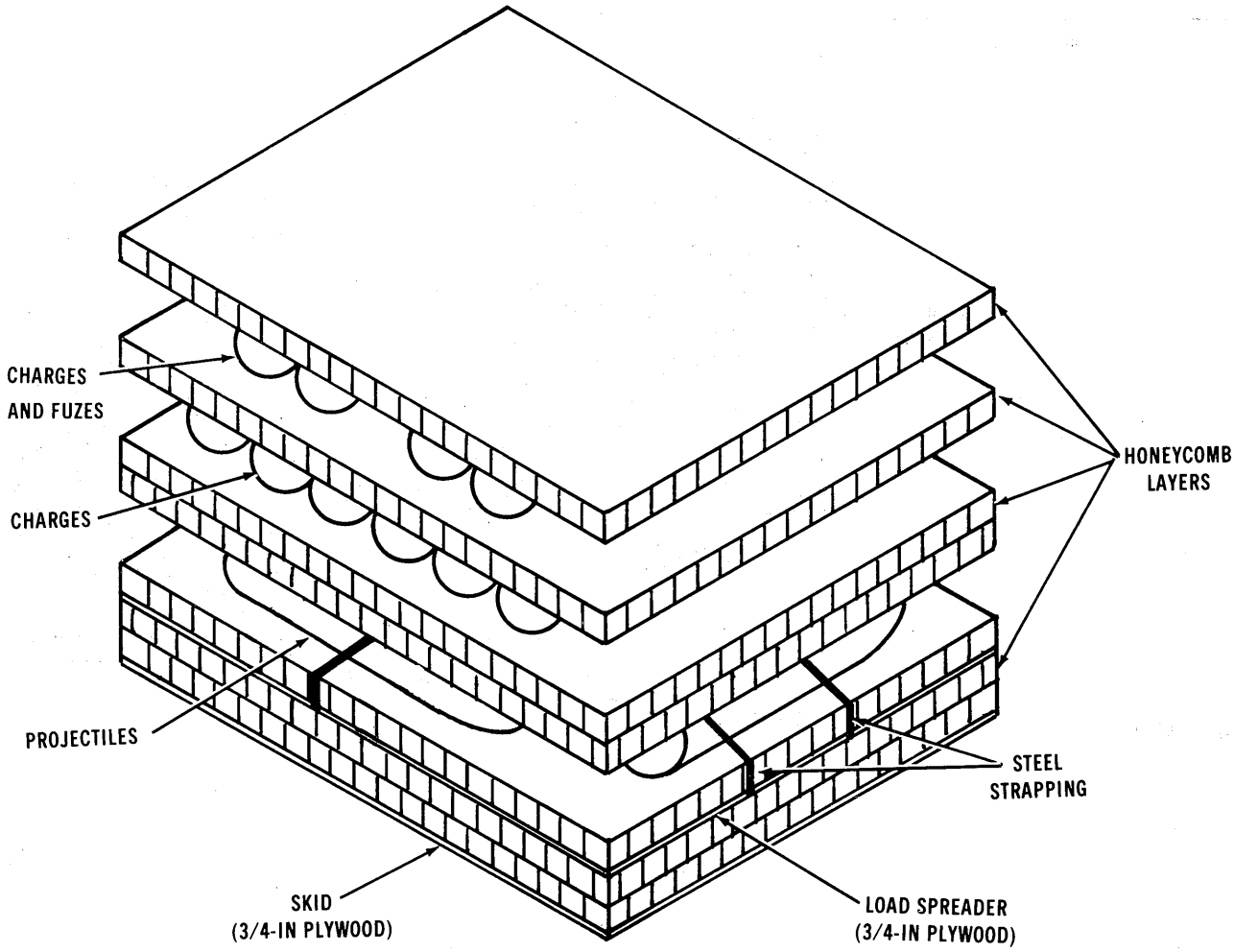


Figure 2-23

The following ammunition items are rigged in an A-22 cargo bag for low-velocity airdrop as shown in figure 2-23.

155-Millimeter Ammunition

Charge, Propelling, 155-mm, M19 (DODAC 1320-D480)
Projectile, 155-mm, Gas, Persistent, HD, M104 (DODAC 1320-D484)
Projectile, 155-mm, HE, M101 (DODAC 1320-D485)
Projectile, 155-mm, Smoke, WP, M104 (DODAC 1320-D487)
Reducer, Flash, Propelling Charge, M1 (DODAC 1320-D490)
Projectile, 155-mm, HE, ADAM, M692 (DODAC 1320-D501)
Projectile, 155-mm, HE, ADAM M731 (DODAC 1320-D502)
Projectile, 155-mm, Illuminating, M485A2 (DODAC 1320-D505)
Projectile, 155-mm, HC, BE, M116E2 (DODAC 1320-D506)
*Charge, Propelling, 155-mm, M203 (DODAC 1320-D532)
Charge, Propelling, 155-mm, M119A1 and M119A2 (DODAC 1320-D533)
Charge, Propelling, 155-mm, M3 (DODAC 1320-D540)
Charge, Propelling, 155-mm, M4A1 (DODAC 1320-D541)
Projectile, 155-mm, HE, M107 (DODAC 1320-D544)
Projectile, 155-mm, Smoke, HC, BE, M116 (DODAC 1320-D548)
*Projectile, 155-mm, Smoke, WP, M110 (DODAC 1320-D550)
Reducer, Flash, Propelling Charge, M2 (DODAC 1320-D552)
Projectile, 155-mm, M449A1 (DODAC 1320-D562)
Projectile, 155-mm, HE, M483A1 (DODAC 1320-D563)
Projectile, 155-mm, HE, RA, M549 (DODAC 1320-D579)

Note: Required fuzes are rigged with the load.

***The old or new type propelling charge container may be rigged.**

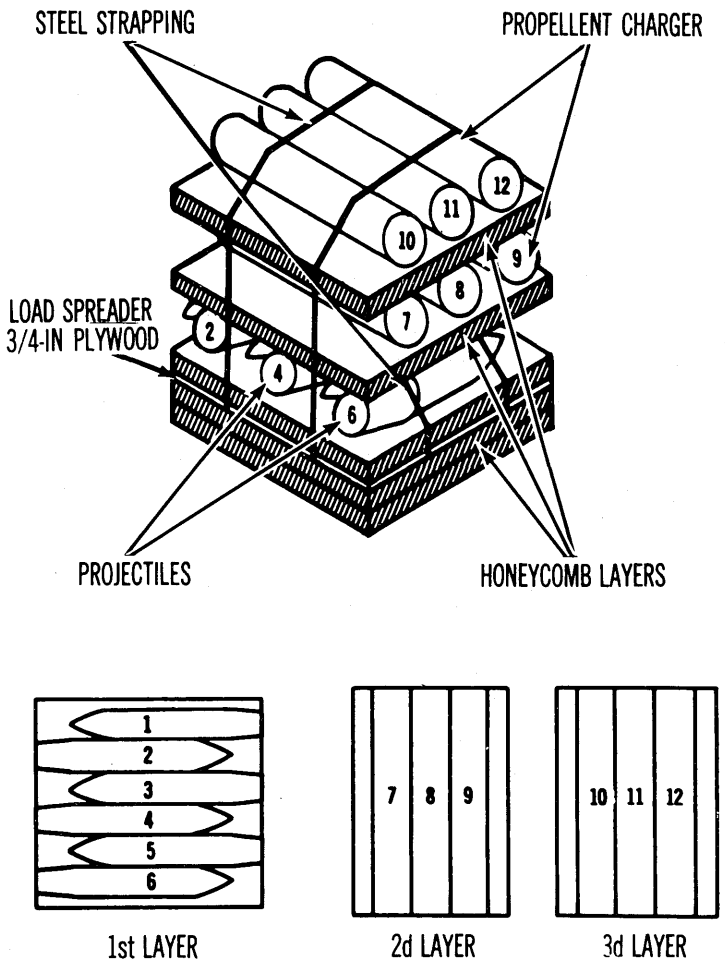


Figure 2-24

The following ammunition items are rigged in an A-22 cargo bag for low-velocity airdrop as shown in figure 2-24.

175-Millimeter Ammunition

Charge, Propelling, 175-mm, WB, M86A2 with additive Jacket M1 and Primer Percussion M82 (DODAC 1320-D361)
Projectile, 175-mm, HE, M437A2 (DODAC 1320-D572)

Note: Required fuzes are rigged with the load.

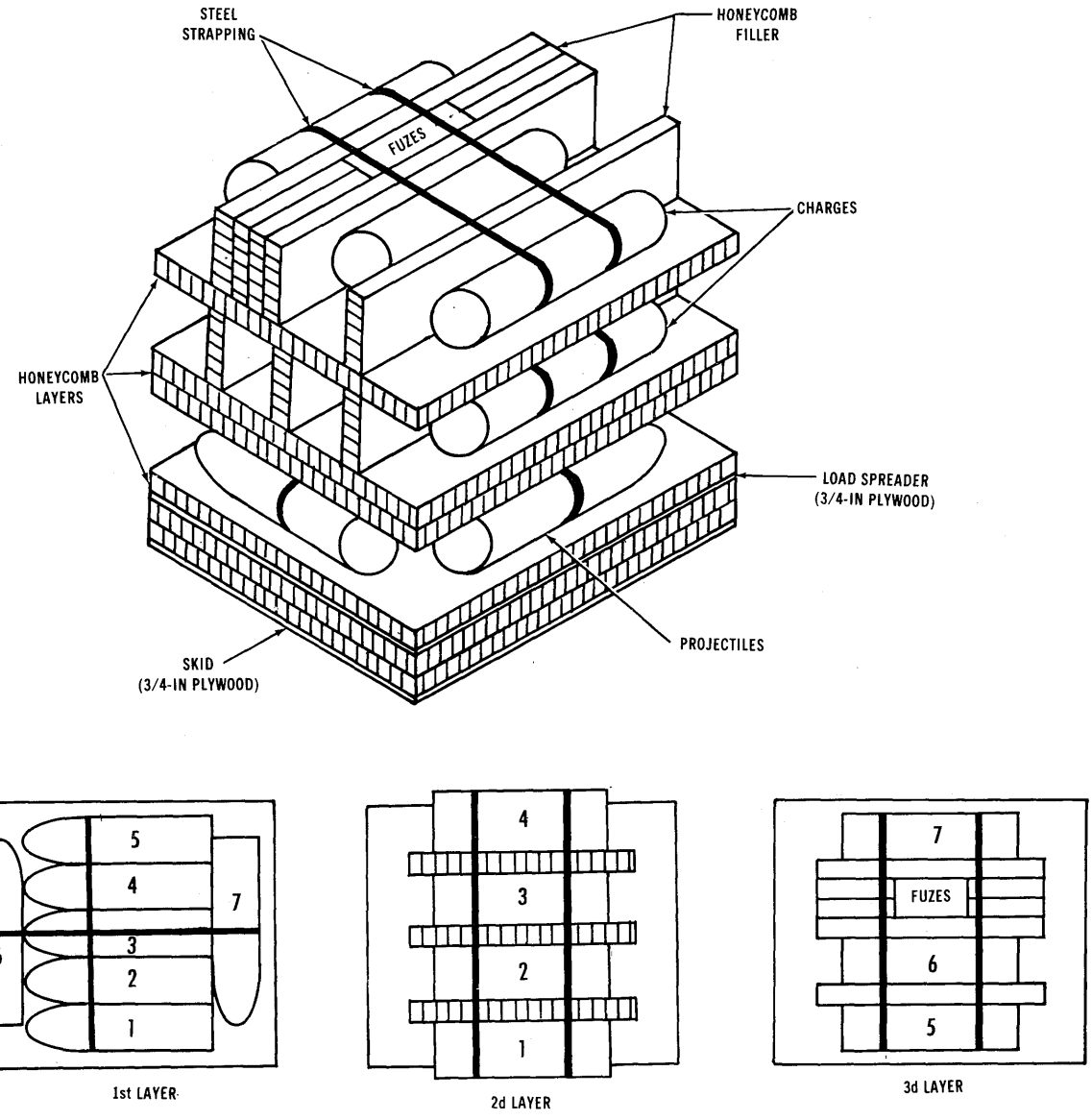


Figure 2-25

The following ammunition items are rigged in an A-22 cargo bag for low-velocity airdrop as shown in figure 2-25.

8-Inch Ammunition

*Charge, Propelling, 8-in, WB, M188 (DODAC 1320-D661)
Charge, Propelling, 8-in, M1 (DODAC 1320-D675)
Charge, Propelling, 8-in, M2 (DODAC 1320-D676)
Projectile, 8-in, HE, M106 (DODAC 1320-D680)
Reducer, Flash, Propelling Charge, M3 (DODAC 1320-D681)
Projectile, 8-in, HE, M404 (DODAC 1320-D684)

Note: Required fuzes are rigged with the load.

***The old or new type propelling charge containers may be rigged.**

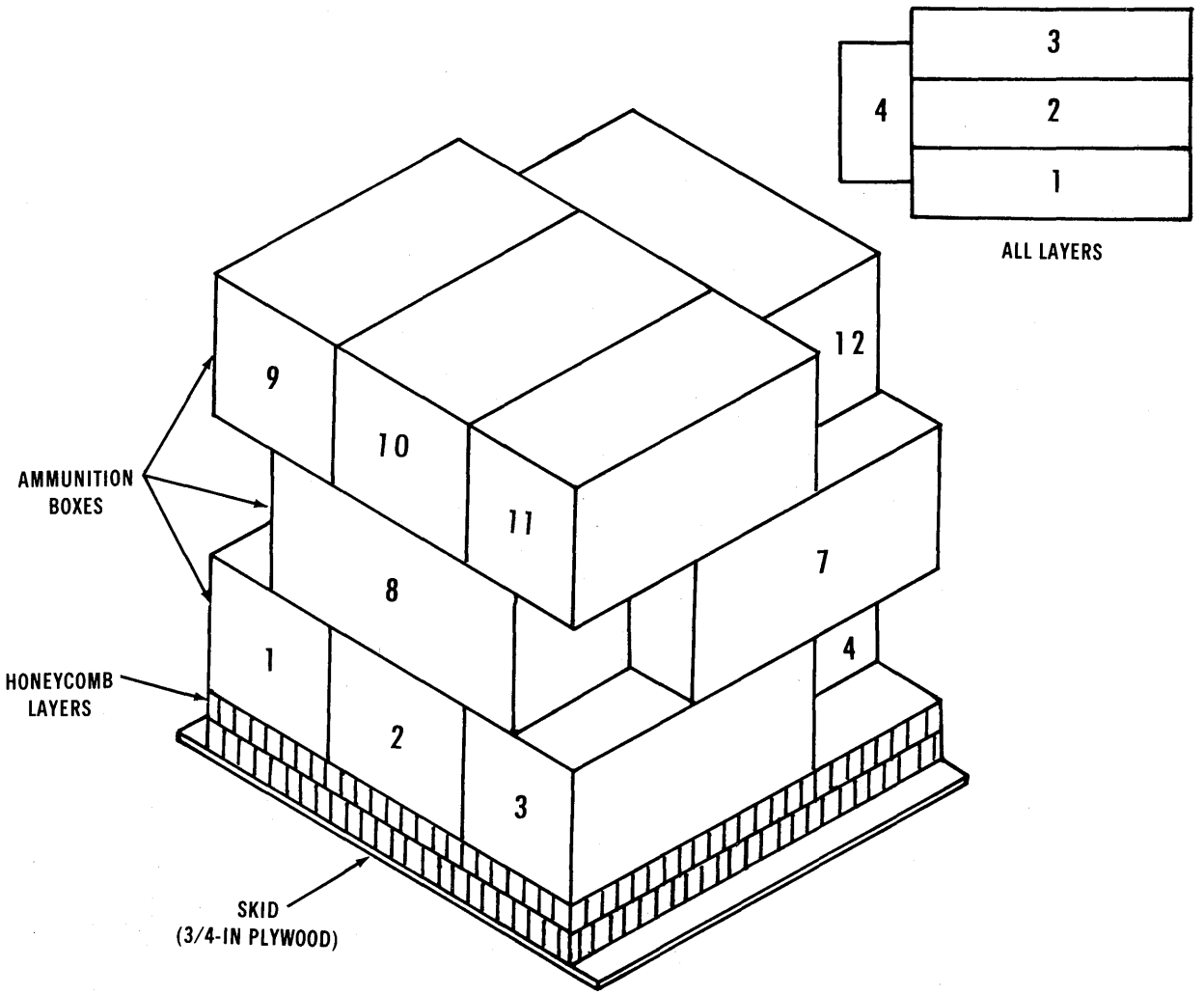


Figure 2-26

The following ammunition items are rigged in an A-22 cargo bag for low-velocity airdrop as shown in figure 2-26.

Canister Cluster

Canister Cluster, XM15 (DODAC 1325-F497)

Mines

M19 Mine may detonate on ground impact if parachute malfunctions. All damaged mines and containers must be considered dangerous and must be destroyed in place.

Mine, AT, HE, M19 (DODAC 1345-K250)

Demolition Item

Fuze, Blasting Time, M700 (DODAC 1375-M670)

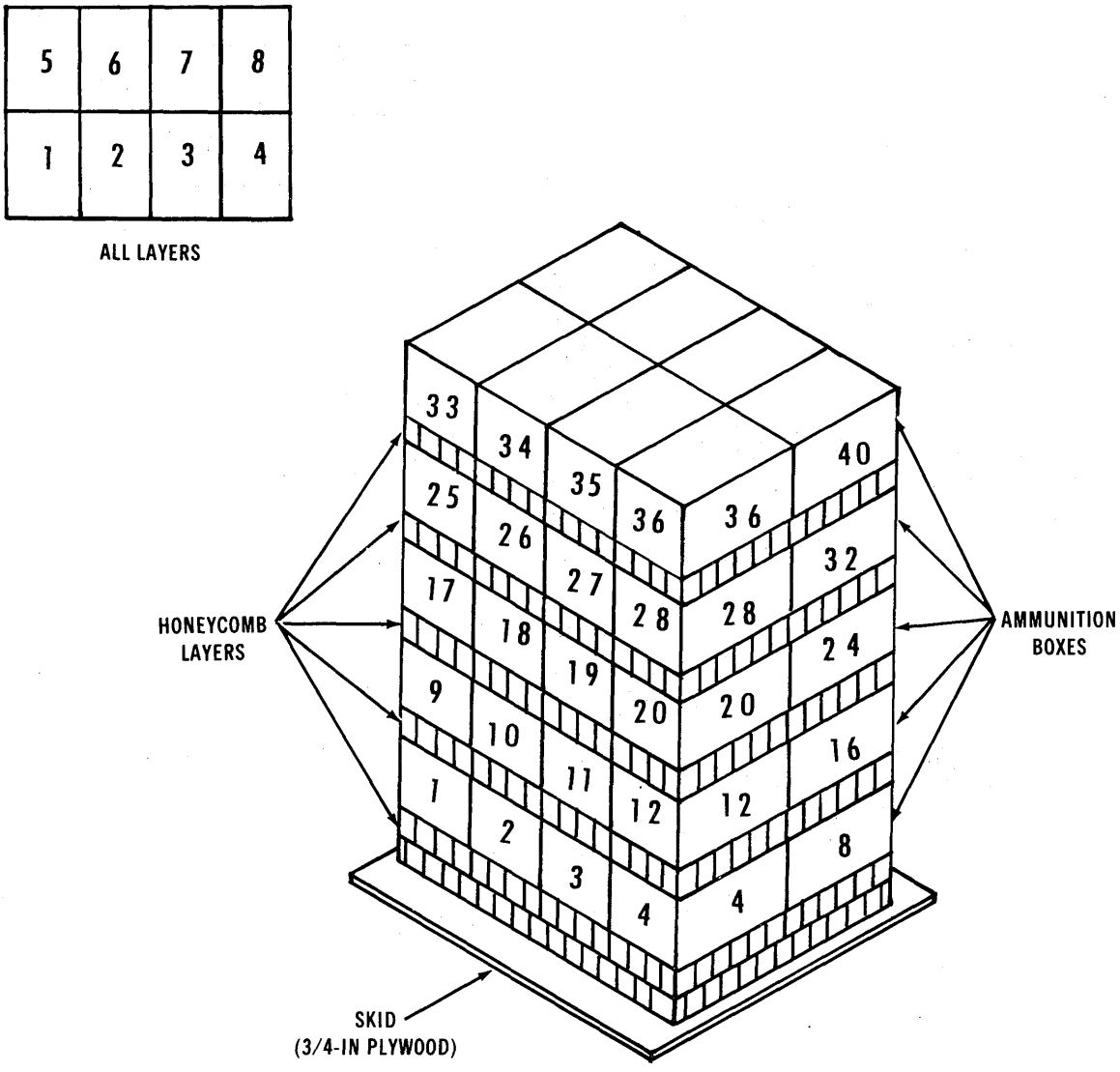


Figure 2-27

The following ammunition items are rigged in an A-22 cargo bag for low-velocity airdrop as shown in figure 2-27.

Grenade

Grenade, Hand Offensive, MK3A2, with Fuze (DODAC 1330-G911)

Demolition Items

Firing Device, Demolition, M5, Pressure Release Type (DODAC 1375-M627)
Igniter Time Blasting Fuze, M2 or M60, Weatherproof (DODAC 1375-M766)

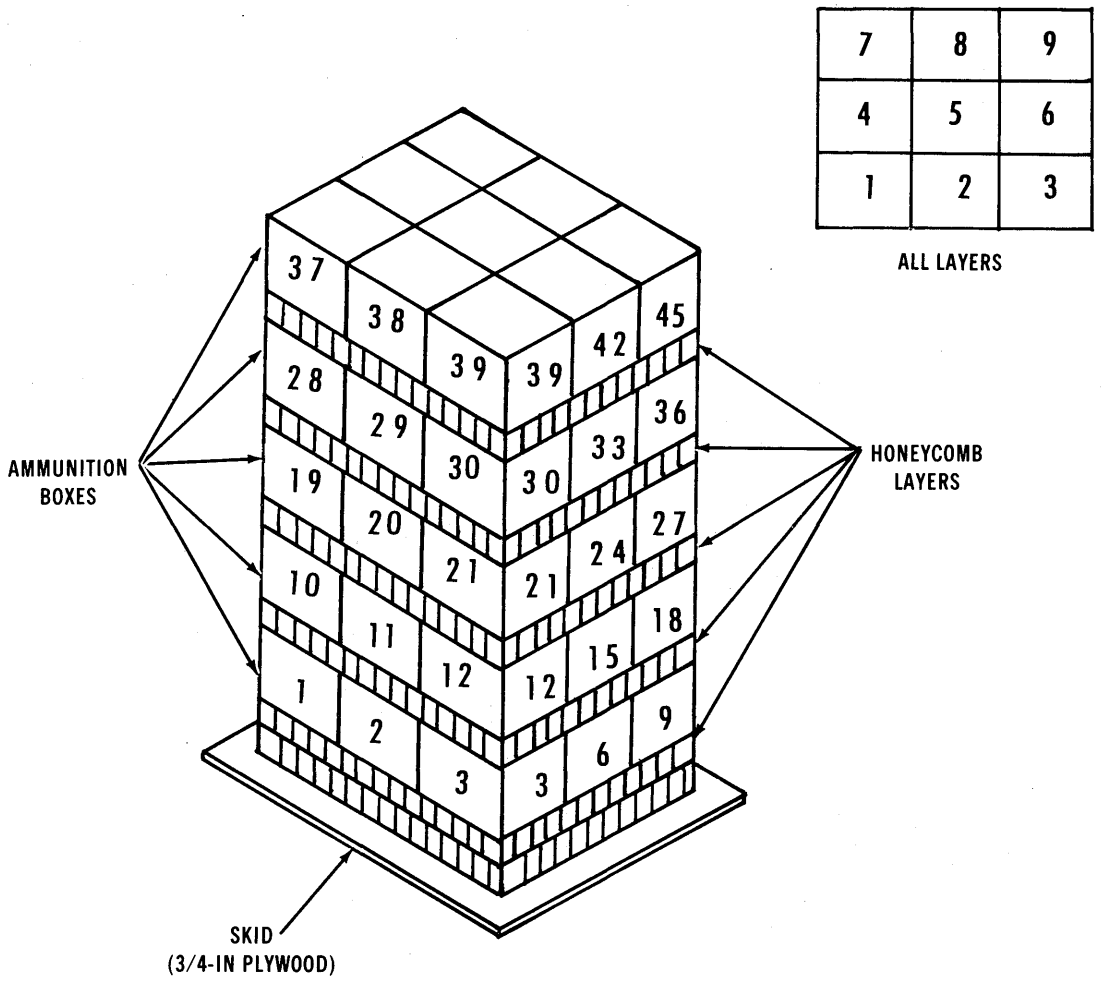


Figure 2-28

The following ammunition items are rigged in an A-22 cargo bag for low-velocity airdrop as shown in figure 2-28.

Grenades

Smoke grenades may detonate on ground impact if parachute malfunctions and could contaminate the drop zone.

Grenade, Hand, Smoke, HC, ABC, AN-M18, with Fuze (DODAC 1330-G930)
Grenade, Hand, Green Smoke, M18, with Fuze (DODAC 1330-G940)
Grenade, Hand, Yellow Smoke, M18, with Fuze (DODAC 1330-G945)
Grenade, Hand, Red Smoke, M18, with Fuze (DODAC 1330-G950)
Grenade, Hand, Violet Smoke, M18, with Fuze (DODAC 1330-G955)
Grenade, Hand, Riot Control, M7A3, with Fuze (DODAC 1330-G963)

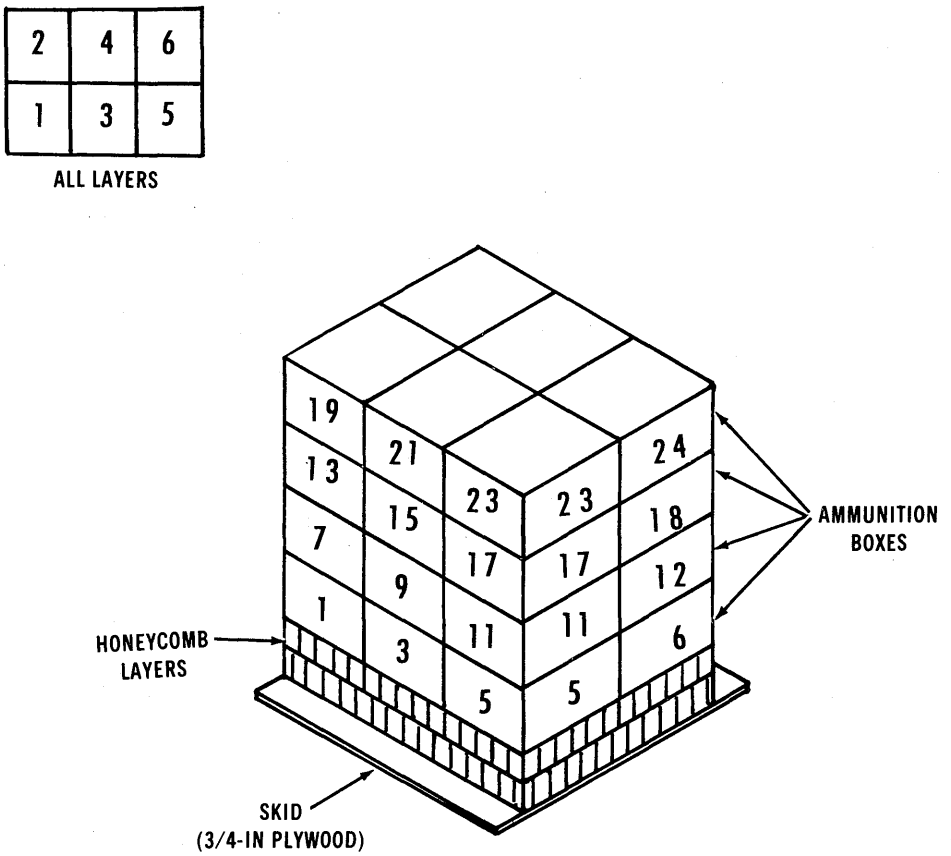


Figure 2-29

The following ammunition items are rigged in an A-22 cargo bag for low-velocity airdrop as shown in figure 2-29.

Grenade

Launcher and Grenade, HC, WP, XM176 (DODAC 1330-H050)

Signal Item

The surface trip flare, M49A1 may burn on ground impact if parachute malfunctions. The surface trip flares must be rigged in separate airdrop containers and must not be mixed with other explosives or ammunition items.

Flare, Surface, M49A1, Trip (DODAC 1370-L495)

Demolition Items

Charge, Demo Block, 1/4-lb, TNT (DODAC 1375-M030)
Cap, Blasting, Special Non-Electric, M7 (DODAC 1375-M131)

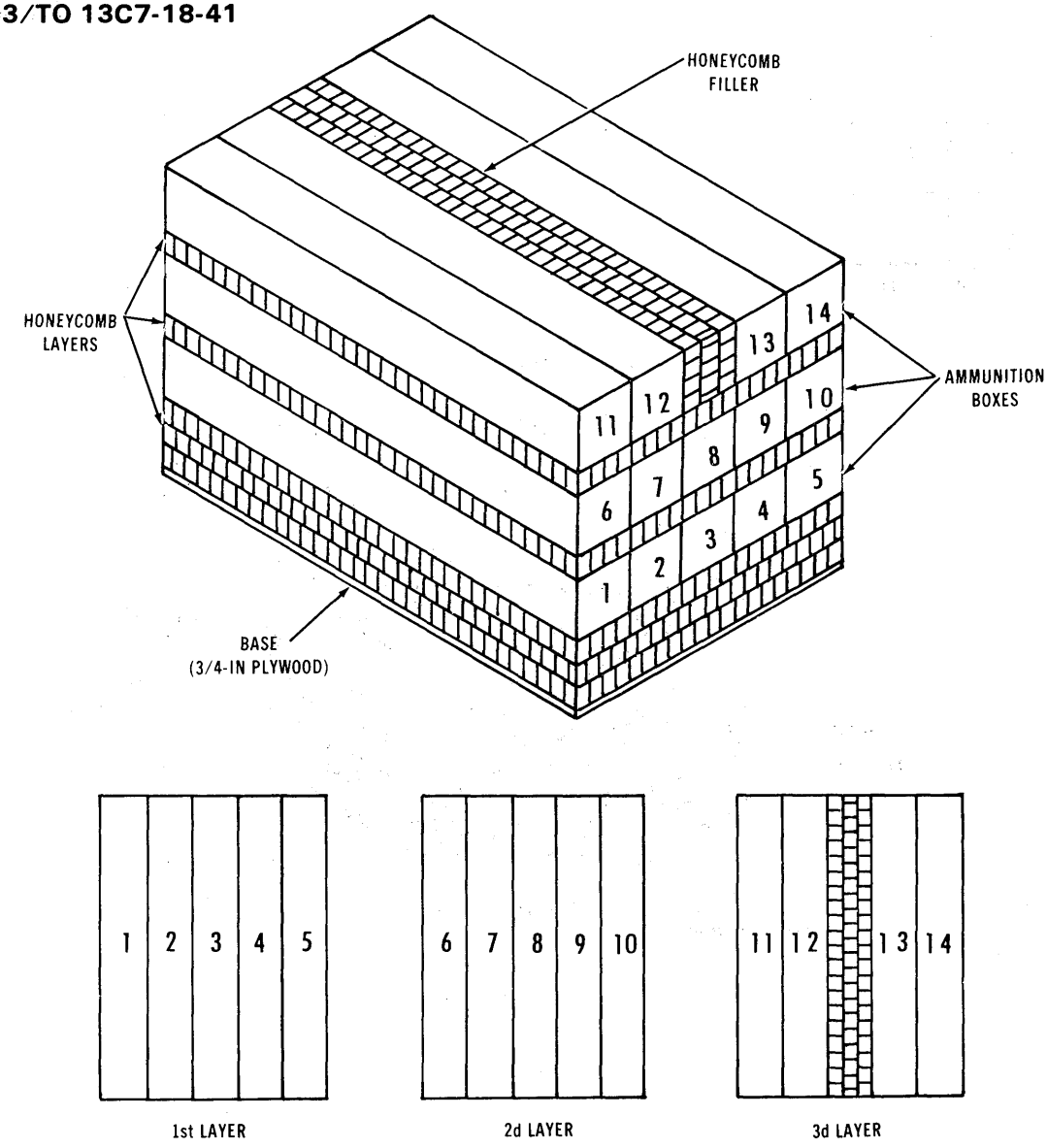


Figure 2-30

The following ammunition items are rigged in an A-22 cargo bag for low-velocity airdrop as shown in figure 2-30.

Rockets
(4-pack boxes only)

This load cannot be dropped in a double stick. It must be dropped in a single stick or single bundle.

Rocket, 2.75 in, HE, M151, with Fuze M440 (DODAC 1340-H161)
Rocket, 2.75 in, WDU-4A/A (DODAC 1340-H459)
Rocket, 2.75 in, HE, M151, with Fuze M429 (DODAC 1340-H489)
Rocket, 2.75 in, HE, M151, with Fuze M423 (DODAC 1340-H490)
Rocket, 2.75 in, Smoke, WP, M156, with Fuze M423 (DODAC 1340-H519)
Rocket, 2.75 in, HE, XM229, with Fuze M423 (DODAC 1340-H534)
Rocket, 2.75 in, HEDP, XM247, with Fuze XM438 (DODAC 1340-H826)

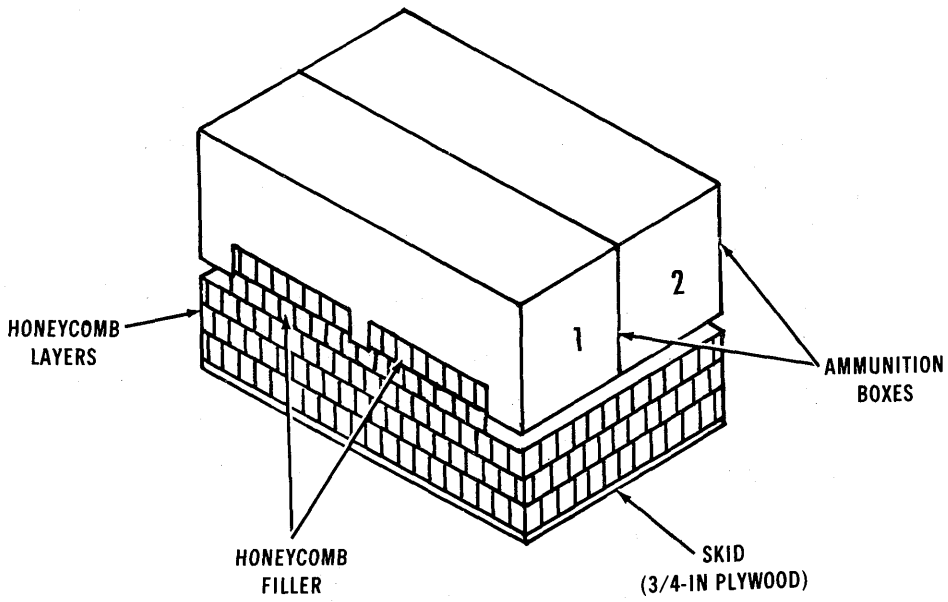


Figure 2-31

The following ammunition items are rigged in an A-22 cargo bag for low-velocity airdrop as shown in figure 2-31.

Rockets
(25-pack boxes only)

This load cannot be dropped in a double stick. It must be dropped in a single stick or single bundle.

Rocket, 2.75 in, HE, M151, with Fuze M440 (DODAC 1340-H161)
Rocket, 2.75 in, WDU-4A/A (DODAC 1340-H459)
Rocket, 2.75 in, HE, XM229, with Fuze M429 (DODAC 1340-H488)
Rocket, 2.75 in, HE, M151, with Fuze M429 (DODAC 1340-H489)
Rocket, 2.75 in, HE, M151, with Fuze M423 (DODAC 1340-H490)
Rocket, 2.75 in, HE, XM229, with Fuze M423 (DODAC 1340-H534)

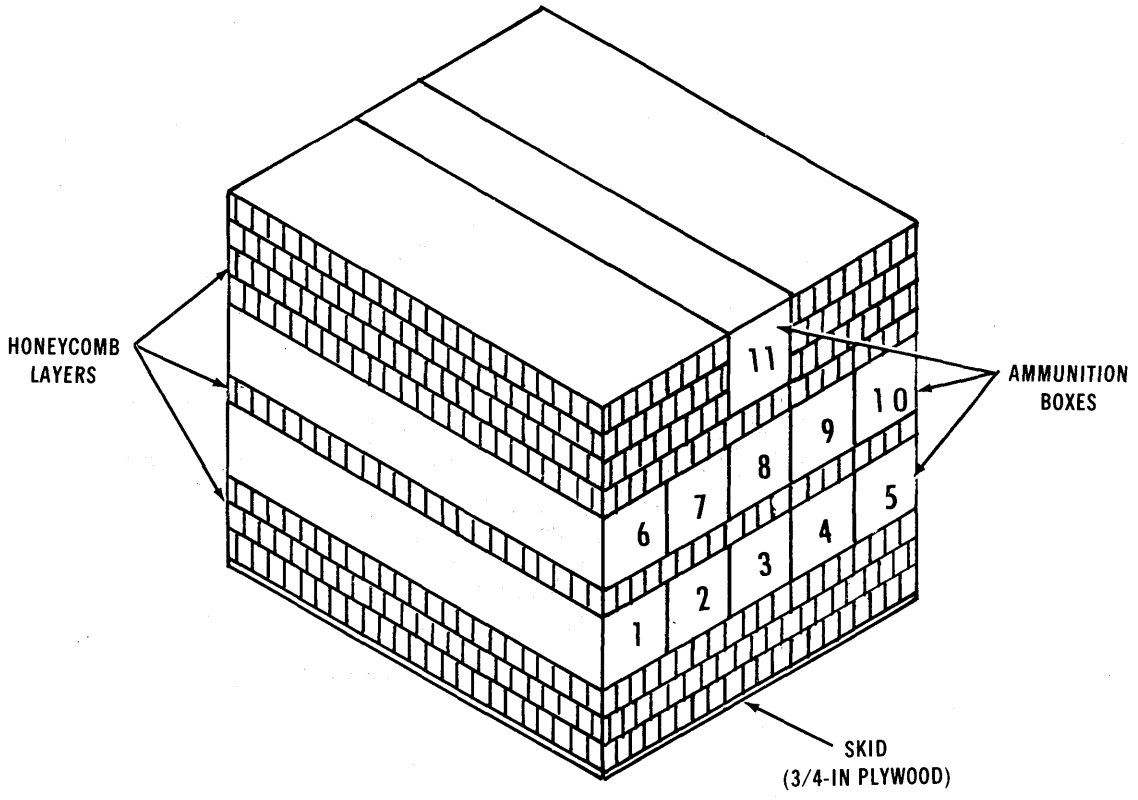


Figure 2-32

The following ammunition item is rigged in an A-22 cargo bag for low-velocity airdrop as shown in figure 2-32.

Rocket
(4-pack boxes only)

This load cannot be dropped in a double stick. It must be dropped in a single stick or single bundle.

Rocket, 2.75 in, HE, XM229 with Fuze M429 (DODAC 1340-M488)

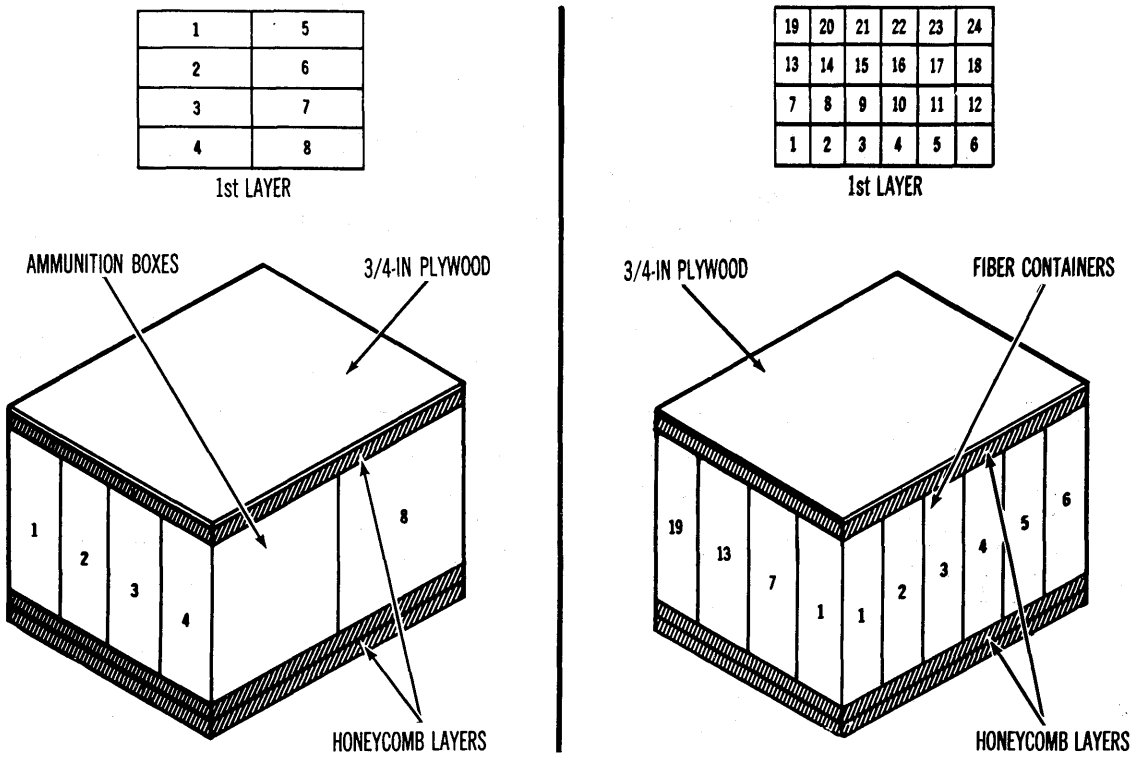


Figure 2-33

A. Rigged with wooden overpack.

B. Rigged without wooden overpack.

The following ammunition item is rigged in an A-22 cargo bag for low-velocity airdrop as shown in figure 2-33.

66-Millimeter Ammunition

This load cannot be dropped in a double stick. It must be dropped in a single stick or single bundle.

These items must be rigged in the base down position. If parachute malfunctions, 66-mm ammunition may detonate on ground impact. All damaged rounds and containers must be considered dangerous and must be destroyed in place.

Rocket, 66-mm, HEAT, M72A2 with Launcher (DODAC 1340-H557)

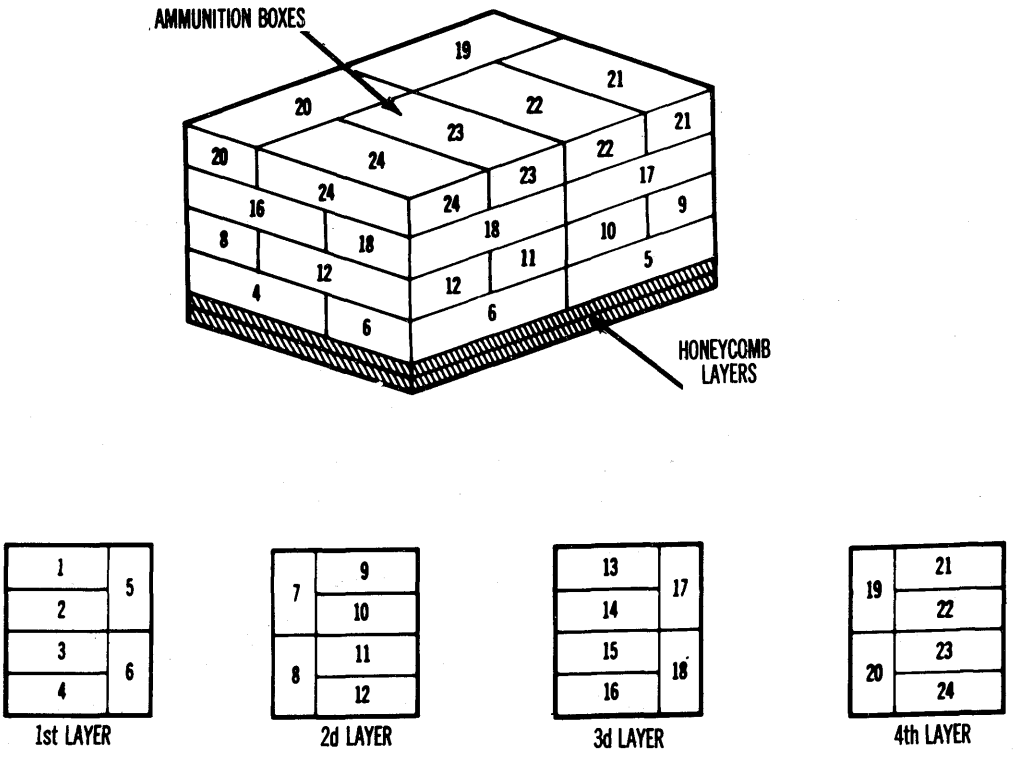


Figure 2-34

The following ammunition items are rigged in an A-22 cargo bag for low-velocity airdrop as shown in figure 2-34.

Mine

If parachute malfunctions the mine may detonate on ground impact. All damaged mines and containers must be considered dangerous and must be destroyed.

Mine, AP, M26 (DODAC 1345-K146)

Demolition Items

Charge, Demolition, Block, PETN, M118 (DODAC 1375-M024)
Charge, Demolition, Block, 1/2-lb TNT (DODAC 1375-M031)
Charge, Demolition, Block, 1-lb TNT (DODAC 1375-M032)
Detonator, Percussion, M1A2, 15-sec Delay (DODAC 1375-M450)
Firing Device, Demolition, M1, Pull Type (DODAC 1375-M630)
Firing Device, Demolition, M1 Release Type (DODAC 1375-M631)
Charge, Assembly, Demolition, M183 (DODAC 1375-M757)

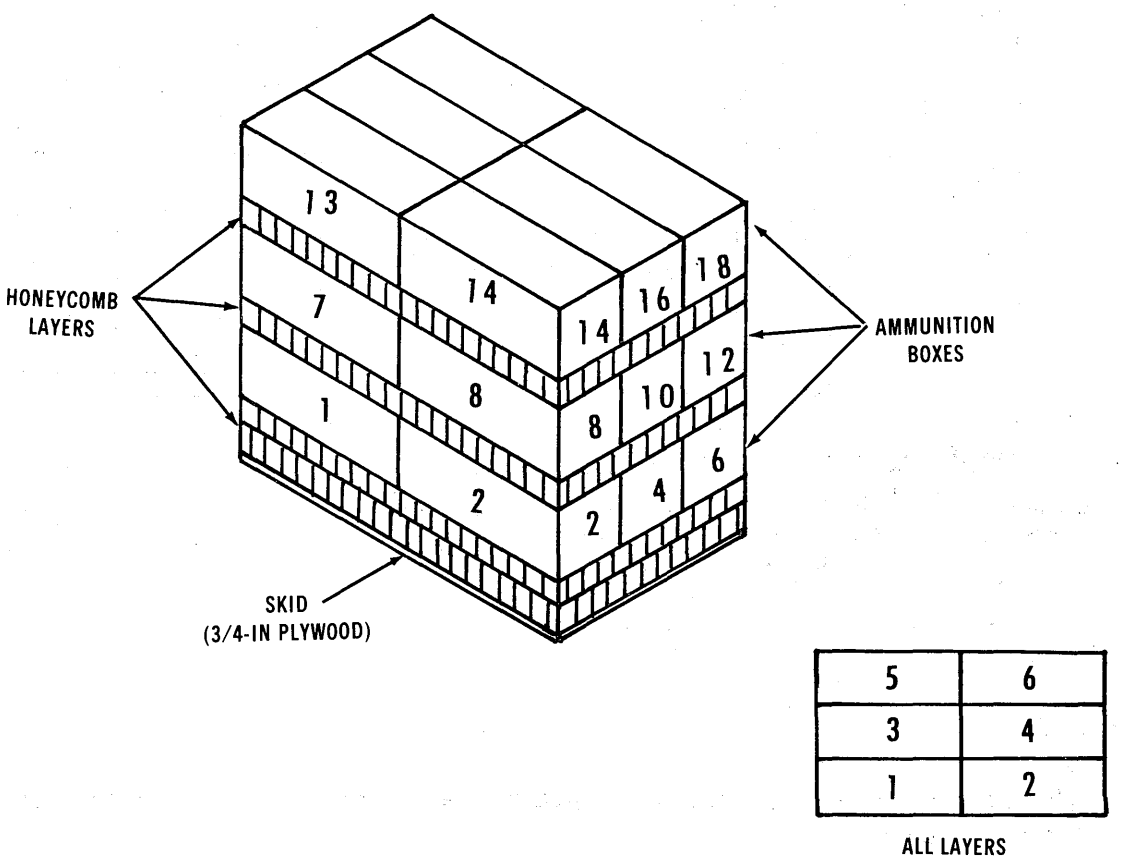


Figure 2-35

The following ammunition items are rigged in an A-22 cargo bag for low-velocity airdrop as shown in figure 2-35.

Incendiary Item

Thickner, Incendiary Oil, M4 (DODAC 1365-K917)

Demolition Items

Detonator, Friction, M2, 8-sec Delay (DODAC 1375-M541)
Detonator, Friction, M1 or M1A1, 15-sec Delay (DODAC 1375-M542)

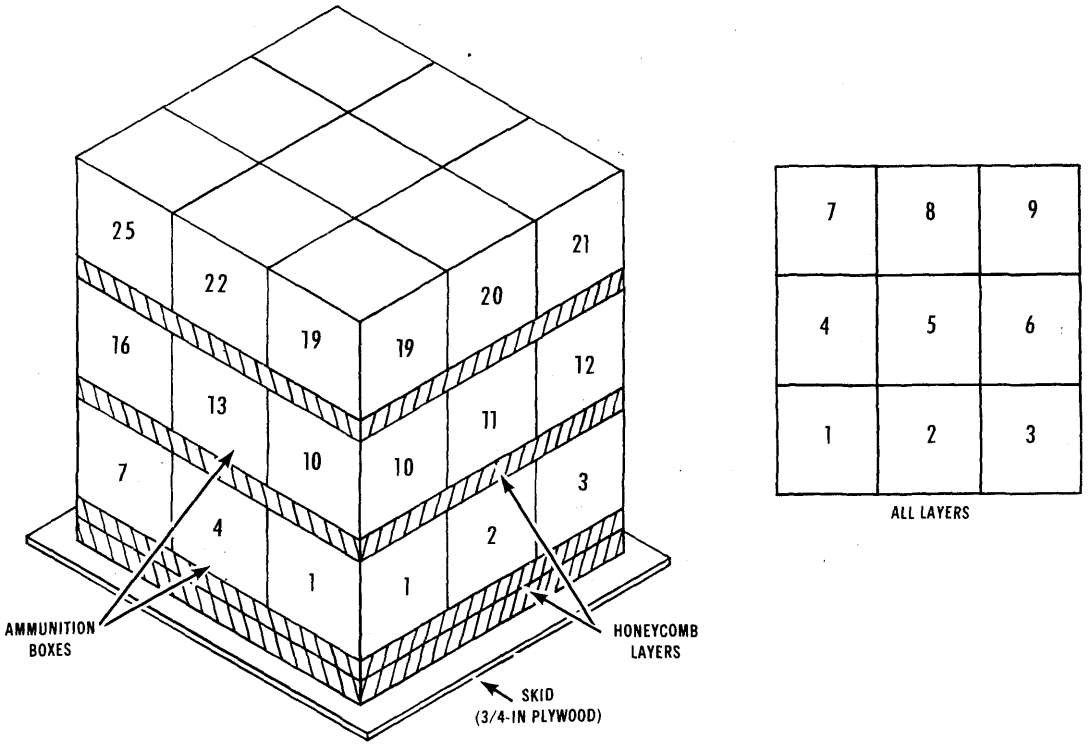


Figure 2-36

The following ammunition items are rigged in an A-22 cargo bag for low-velocity airdrop as shown in figure 2-36.

Signal Items

Signal, Illuminating, Ground, M195 Green Star (DODAC 1370-L305)
Signal, Illuminating, Ground, M158 Red Star (DODAC 1370-L306)
Signal, Illuminating, Ground, M159 White Star (DODAC 1370-L307)
Signal, Illuminating, Ground Parachute, M126A1 (DODAC 1370-L311)
Signal, Illuminating, Parachute, M127A1, White Star (DODAC 1370-L312)
Signal, Illuminating, GRD, Cluster, M125A1 (DODAC 1370-L314)
Signal, Smoke, Parachute, M129A1, Red (DODAC 1370-L323)
Signal, Smoke, Parachute, M128A1, Green (DODAC 1370-L324)

•

Demolition Item

Destructor, Explosive, Universal, M10 (DODAC 1375-M241)

Demolition Item

Ignition cylinders, flamethrower, M1 will detonate on ground impact if parachute malfunctions. These ignitors do not contain explosives but will burn, producing an intense heat.

Ignition Cylinder, Portable Flamethrower, M1, Type II (DODAC 1375-M680)

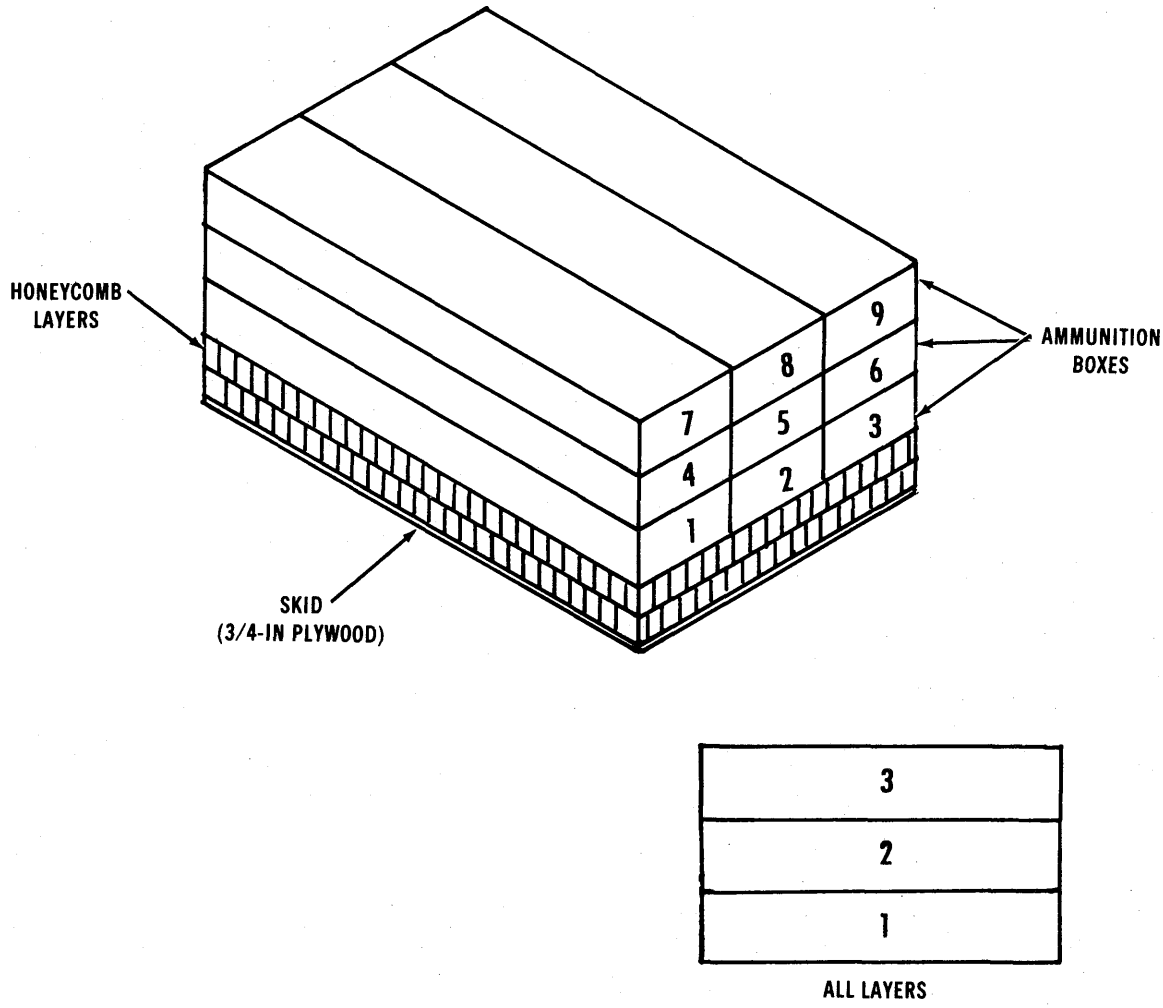


Figure 2-37

The following ammunition items are rigged in an A-22 cargo bag for low-velocity airdrop as shown in figure 2-37.

Demolition Items

This load cannot be dropped in a double stick, because it exceeds the width limitations. It must be dropped in a single stick or single bundle.

Demolition Kit, Bangalore Torpedo, M1A1 (DODAC 1375-M026)
Demolition Kit, Bangalore Torpedo, M1A2 (DODAC 1375-M028)

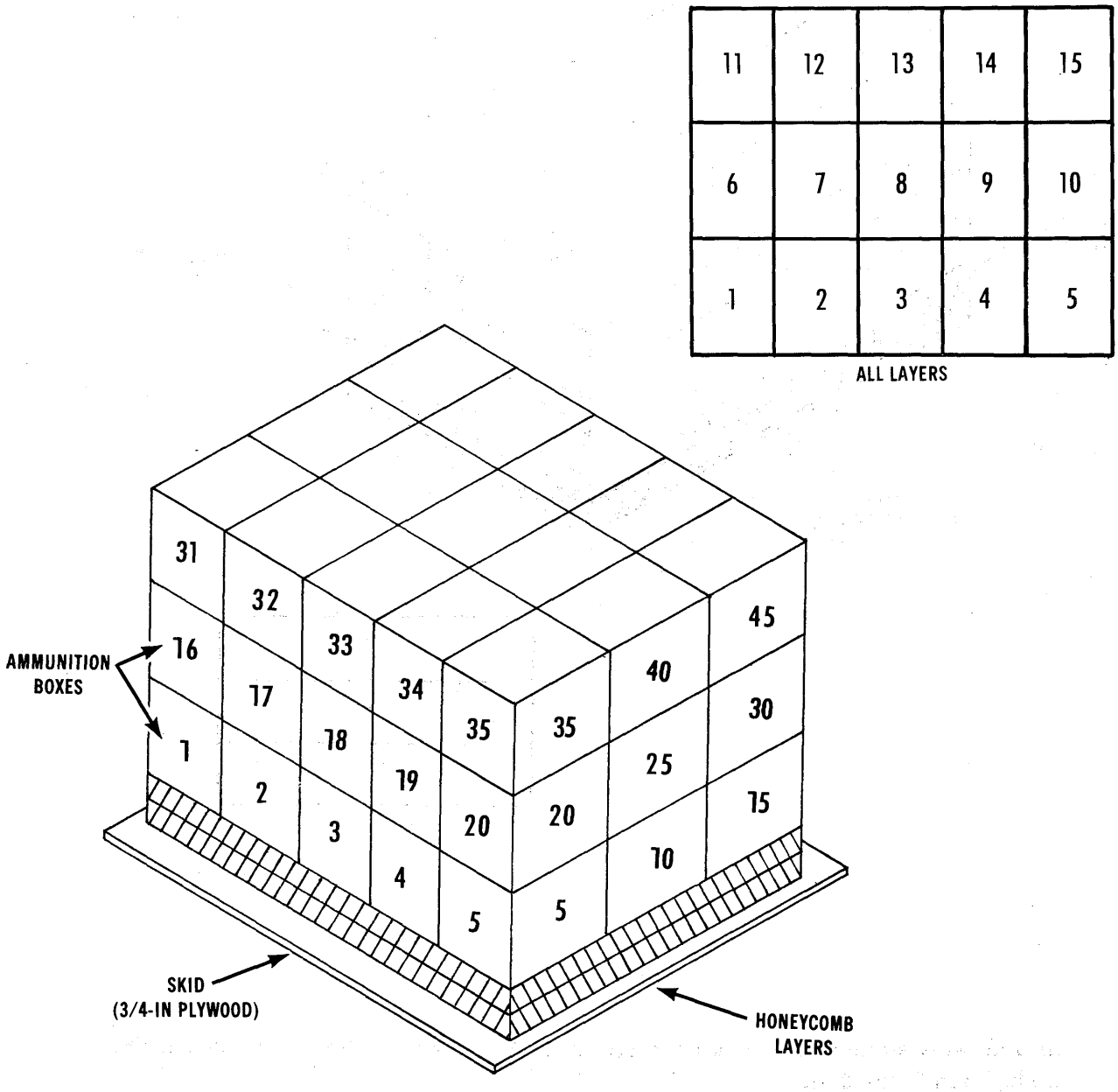


Figure 2-38

The following ammunition item is rigged in an A-22 cargo bag for low-velocity airdrop as shown in figure 2-38.

Demolition Item

Charge, Demolition, Block, M3 (DODAC 1375-M037)

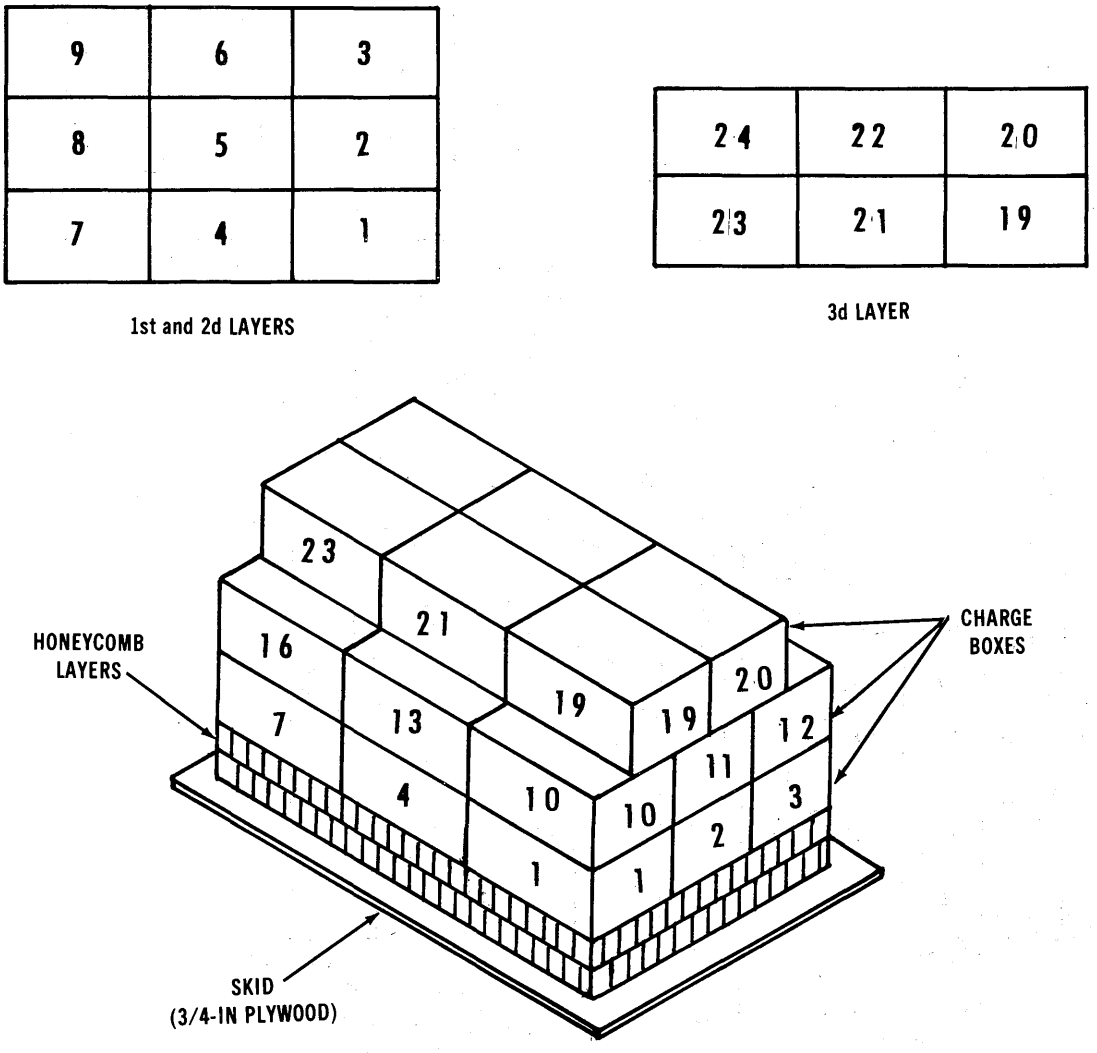


Figure 2-39

The following ammunition item is rigged in an A-22 cargo bag for low-velocity airdrop as shown in figure 2-39.

Demolition Item

Charge, Demolition, Block, M451 (DODAC 1375-M038)

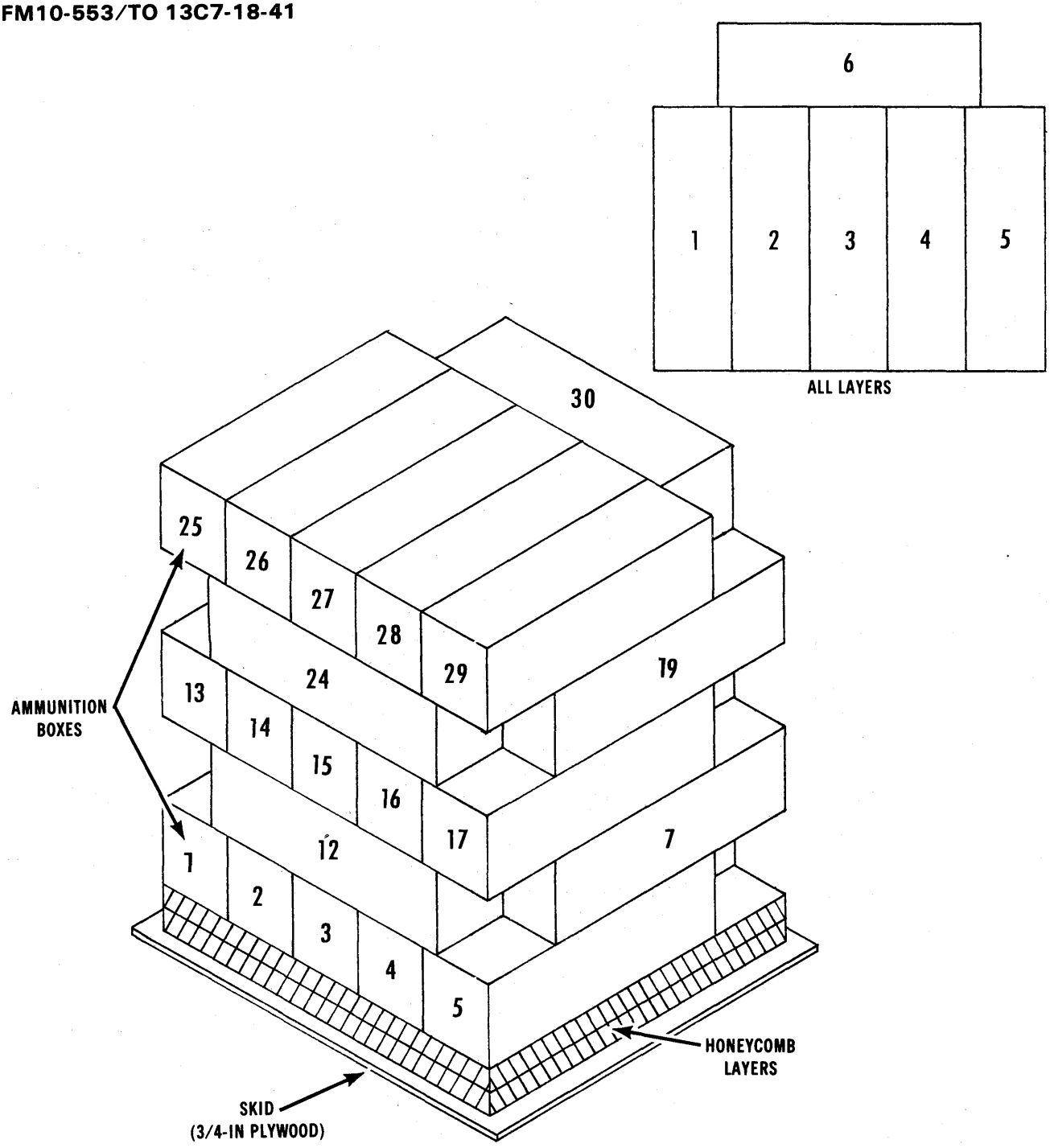


Figure 2-40

The following ammunition item is rigged in an A-22 cargo bag for low-velocity airdrop as shown in figure 2-40.

Demolition Item

Charge, Demolition, Shaped, HJE, 15-lb, M2A3 (DODAC 1375-M420)

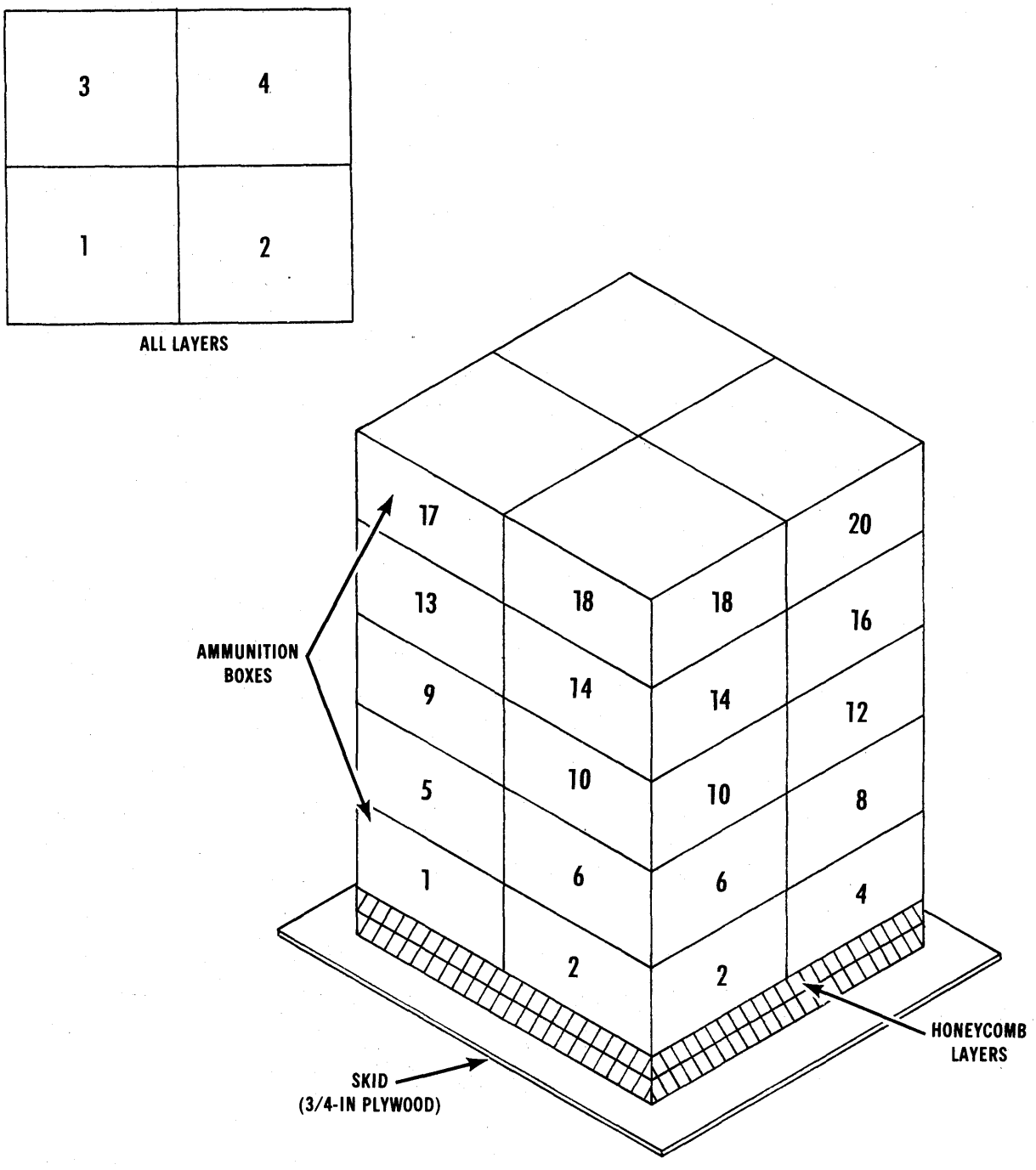


Figure 2-41

The following ammunition item is rigged in an A-22 cargo bag for low-velocity airdrop as shown in figure 2-41.

Demolition Item

Detonator Kit, Concussion, M1 (DODAC 1375-M540)

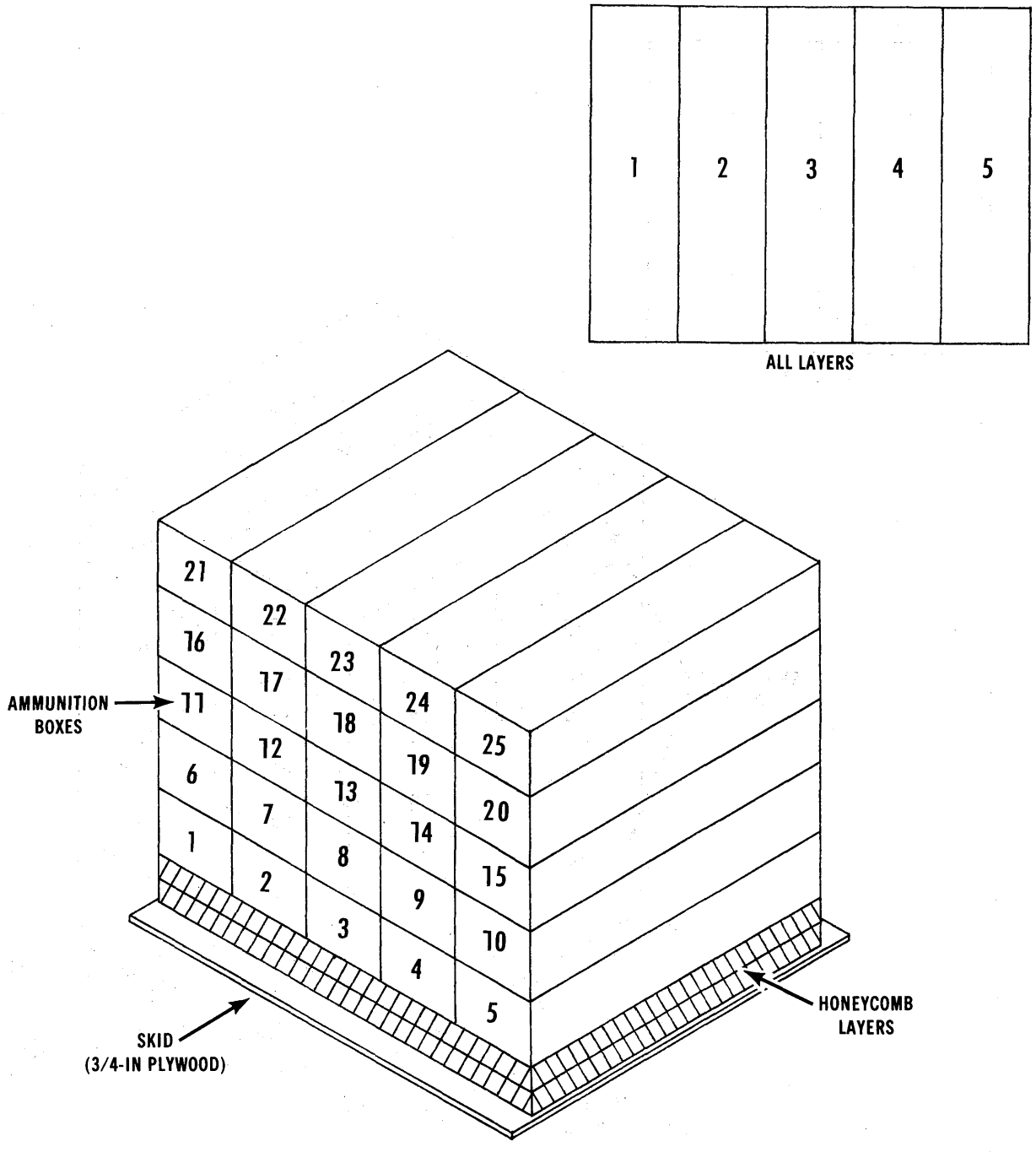


Figure 2-42

The following ammunition item is rigged in an A-22 cargo bag for low-velocity airdrop as shown in figure 2-42.

Demolition Item

Firing Device, Demolition, M1A1, Pressure Type (DODAC 1375-M626)

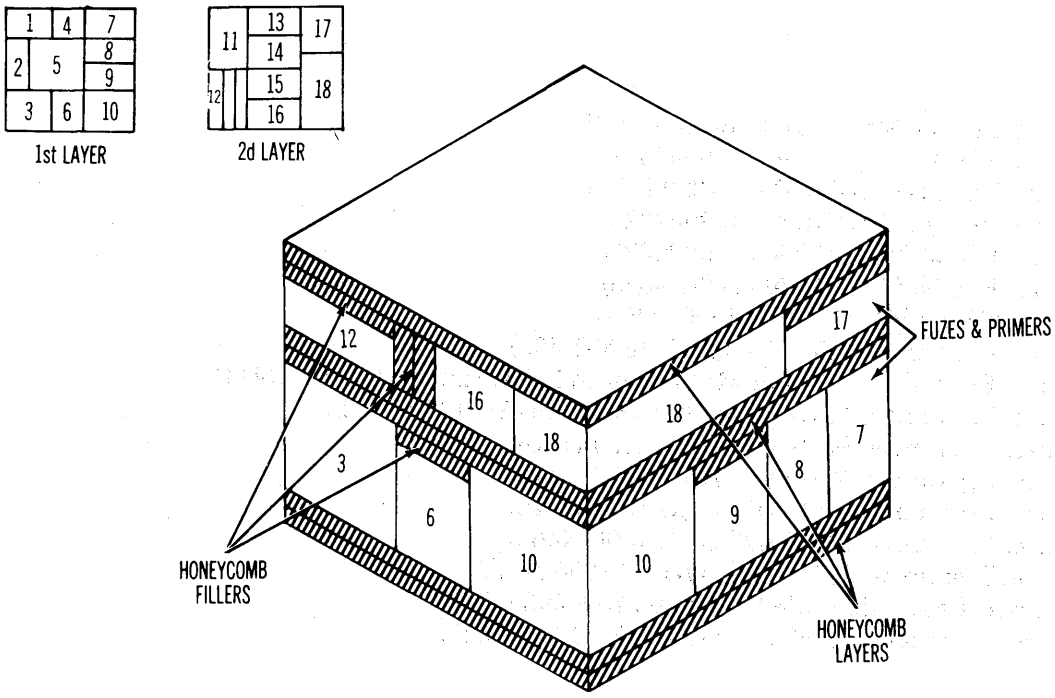


Figure 2-43

The following ammunition items are rigged in an A-22 cargo bag for low-velocity airdrop as shown in figure 2-43.

Dropping these items as a single item load may not be practical; however, they can be contained in an A-22 cargo bag with other compatible items and air-dropped. Quantity and type of items that can be rigged in an A-22 cargo bag is determined by the individual ammunition container dimensions and weight.

Mine

Mine, Chemical Agent, 1 gal (Empty) (DODAC 1345-K260)

Incendiary Item

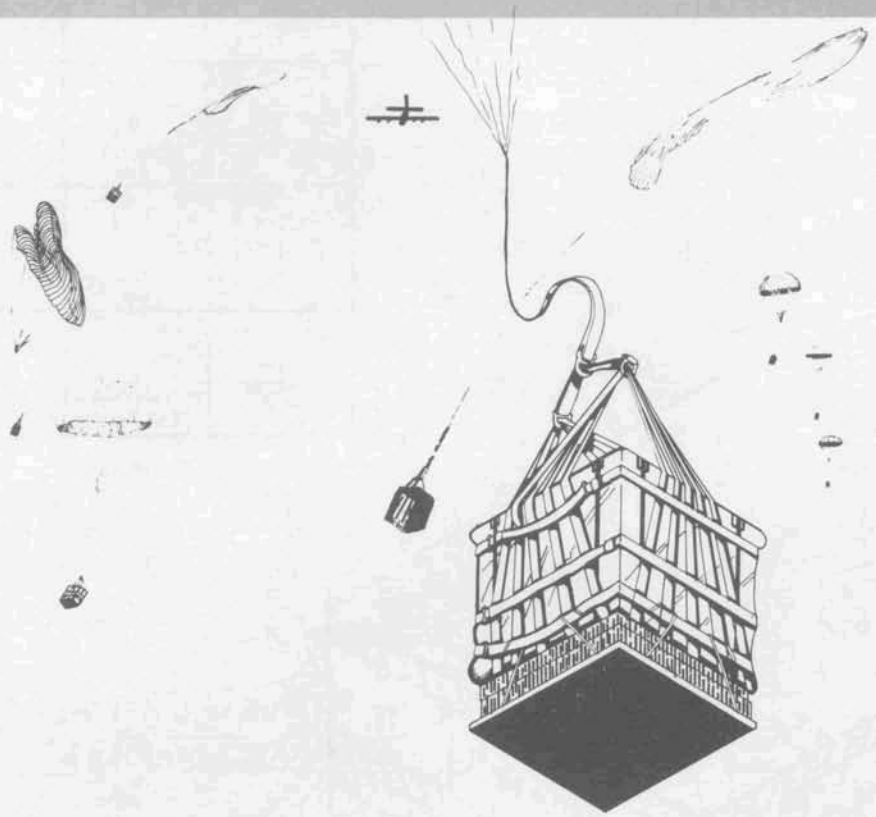
Starter, Fire, NP3, M2 (DODAC 1370-L621)

Fuzes and Primers

When Proximity fuzes are air-dropped, the boxed fuzes must be dropped in the "nosedown" position. If the boxes are damaged the fuzes must not be used.

Fuze, MT, 565 (DODAC 1390-N248)
Fuze, MTSQ, M500 or M500A1 (DODAC 1390-N275)
Fuze, MTSQ, M501 or M501A1 (DODAC 1390-N276)
Fuze, MTSQ, M502 or M502A1 (DODAC 1390-N277)
Fuze, MT, M564 (DODAC 1390-N278)
Fuze, MTSQ, M518 (DODAC 1390-N279)
Fuze, MTSQ, M520 (DODAC 1390-N280)

Fuze, MTSQ, M577 (DODAC 1390-N285)
Fuze, PD, M572 (DODAC 1390-N311)
Fuze, PD, M48A3 (DODAC 1390-N318)
Fuze, PD, M535 (DODAC 1390-N323)
Fuze, PD, M508 (DODAC 1390-N326)
Fuze, PD, M557 (DODAC 1390-N335)
Fuze, TSQ, M54 (DODAC 1390-N400)
Fuze, Proximity, M532 (DODAC 1390-N402)
Fuze, Proximity, M514 or M514A1 or M514B1 (DODAC 1390-N411)
Fuze, Proximity, M513A1 or M513B1 (DODAC 1390-N412)
Fuze, Proximity, M516 (DODAC 1390-N416)
Fuze, Proximity, M517 (DODAC 1390-N417)
Fuze, Proximity, M515 (DODAC 1390-N420)
Fuze, Proximity, M728 (DODAC 1390-N463)
Fuze, Proximity, M514A1 (DODAC 1390-N477)
Primer, Percussion, M82 (DODAC 1390-N523)
Primer, Percussion, MK2A4 (DODAC 1390-N525)



Section II

RIGGING A-22 CARGO BAG FOR HIGH-VELOCITY AIRDROP

2-4. Preparing A-22 Cargo Bag

Prepare the A-22 cargo bag according to FM 10-501/TO 13C7-1-11.

2-5. Special Instructions

a. The ammunition loads are positioned in the A-22 cargo bag for high-velocity airdrop according to the figures listed in this section.

b. A-22 cargo bags rigged to be dropped in a double stick cannot be more than 80 3/8 inches high, including parachute, and 53 1/2 inches wide. However, loads between 80 3/8 and 100 inches high may be dropped in a single stick or, with prior Air Force approval, in a double stick. Any load that extends beyond the limits of the standard A-22 skid must be across the 48-inch length.

c. The minimum allowable rigged weight of an A-22 cargo bag, including parachute, shall be 35 pounds per square foot, based upon the largest projected surface area.

d. Close and secure the A-22 cargo bag according to FM 10-501/TO 13C7-1-11.

2-6. Parachute Requirements

Select the correct size parachute(s) from Table 1-2. Attach the parachute(s) to the rigged load according to FM 10-501/TO 13C7-1-11.

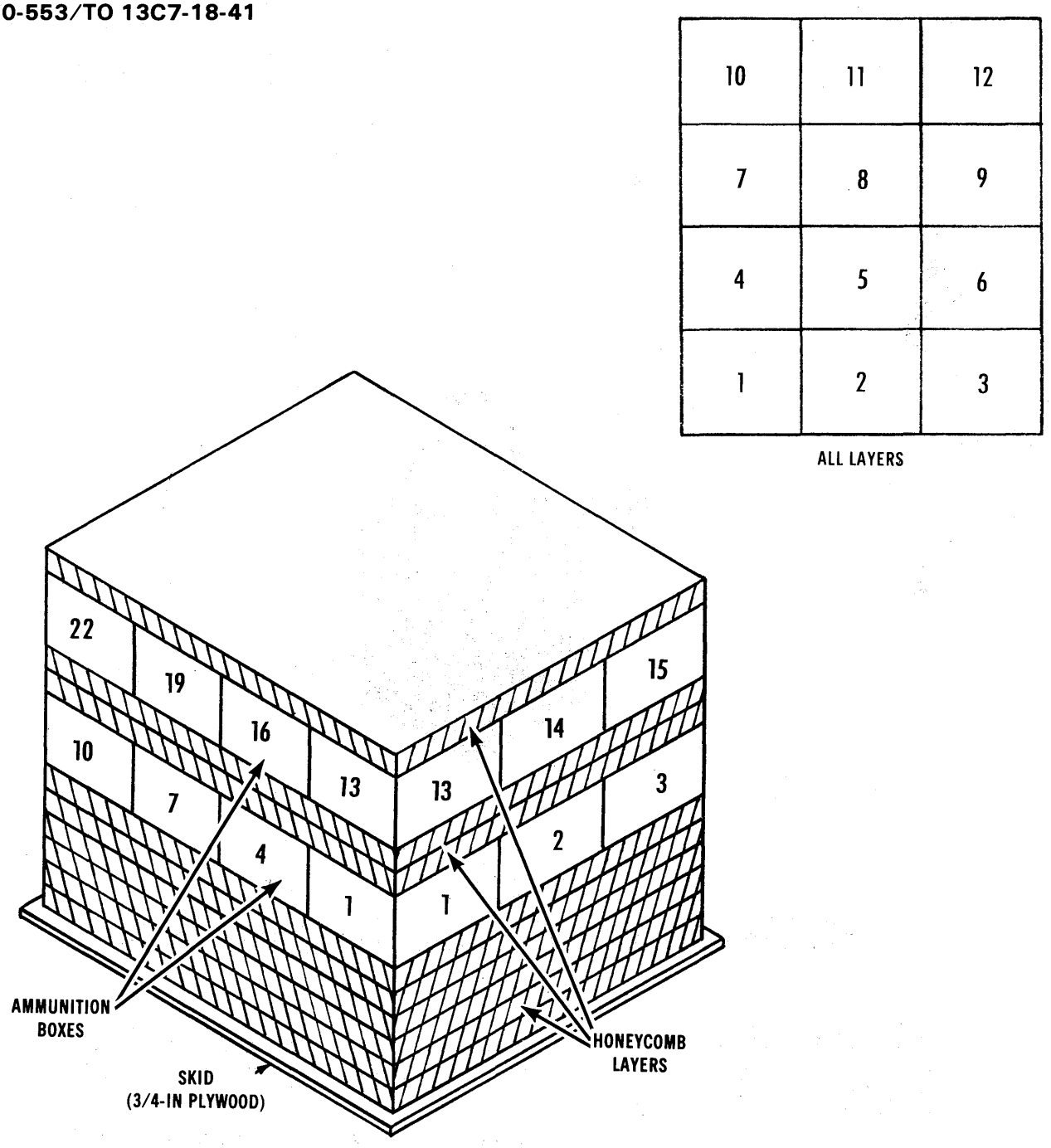


Figure 2-44

The following ammunition items are rigged in an A-22 cargo bag for high-velocity airdrop as shown in figure 2-44.

5.56-Millimeter Ammunition

Cartridge, 5.56-mm, Tracer, M196 (DODAC 1305-A068)
Cartridge, 5.56-mm, Ball, M193 (DODAC 1305-A071)

7.62-Millimeter Ammunition

Cartridge, 7.62-mm, Ball, M59 and M80 (DODAC 1305-A122)
Cartridge, 7.62-mm, Tracer, M62 (DODAC 1305-A124)
Cartridge, 7.62-mm, Ball Tracer Linked, with M13 Link, M80 (DODAC 1305-A127)
Cartridge, 7.62-mm, 5-Rd. Clip, M80 (DODAC 1305-A130)
Cartridge, 7.62-mm, Ball Tracer, Linked with M13 Link, M62 (DODAC 1305-A131)
Cartridge, 7.62-mm, Match, M118 (DODAC 1305-A136)
Cartridge, 7.62-mm, Tracer, M62 (DODAC 1305-A140)
Cartridge, 7.62-mm, Tracer, M62 Clipped (DODAC 1305-A145)

.30-Caliber Ammunition

Cartridge, Cal .30, AP API, 5-Rd, Clip, Grade R (DODAC 1305-A203)
Cartridge, Cal .30, AP API, 8-Rd, Clip, Grade R (DODAC 1305-A205)
Cartridge, Cal .30, AP API, Linked, M2, with M1 Link, Grade MG (DODAC 1305-A207)
Cartridge, Cal .30, AP API, Linked, with Tracer (DODAC 1305-A209)
Cartridge, Cal .30, Ball, M2 (DODAC 1305-A212)
Cartridge, Cal .30, Ball and Tracer, Linked (DODAC 1305-A218)
Cartridge, Cal .30, Tracer, Carton (DODAC 1305-A230)
Cartridge, Cal .30, Tracer, M25, Linked (DODAC 1305-A236)

.45-Caliber Ammunition

Cartridge, Cal .45, Ball, M1911 (DODAC 1305-A475)

.50-Caliber Ammunition

Cartridge, Cal .50, API M8 (DODAC 1305-A531)
Cartridge, Cal .50, API, M8 Linked (DODAC 1305-A533)
Cartridge, Cal .50, APT-T, M20 (DODAC 1305-A541)
(DODAC 1305-A543)
Cartridge, Cal .50, APIT, M20, Linked, with M2 Link, Grade MG (DODAC 1305-A544)
Cartridge, Cal .50, Tracer, M17, Grade MG (DODAC 1305-A571)
Cartridge, Cal .50, Tracer, M17 Linked with M2 Link, Grade AC (DODAC 1305-A572)
Cartridge, Cal .50, Spotter-Tracer, M48A2 (DODAC 1305-A574)
Cartridge, Cal .50, Linked, 4 API M8, API-T M20, (DODAC 1305-A576)
Cartridge, Cal .50, Linked, 4 API M8, 1 API-T M20 (DODAC 1305-A577)
Cartridge, Cal .50, API-T M20 Linked (DODAC 1305-A585)
Cartridge, Cal .50, Linked, 4 API M8, 1 APT-T, M20 (DODAC 1305-A587)
Cartridge, Cal .50, Linked, 4 API M8, 1 API-T, M20 (DODAC 1305-A589)

Incendiary Item

Burster, Incendiary, Field, M4 without Fuze (DODAC 1345-K010)

Demolition Item

Charge, Propelling, Earth Rod, M12, with Primer M44 (DODAC 1375-M405)

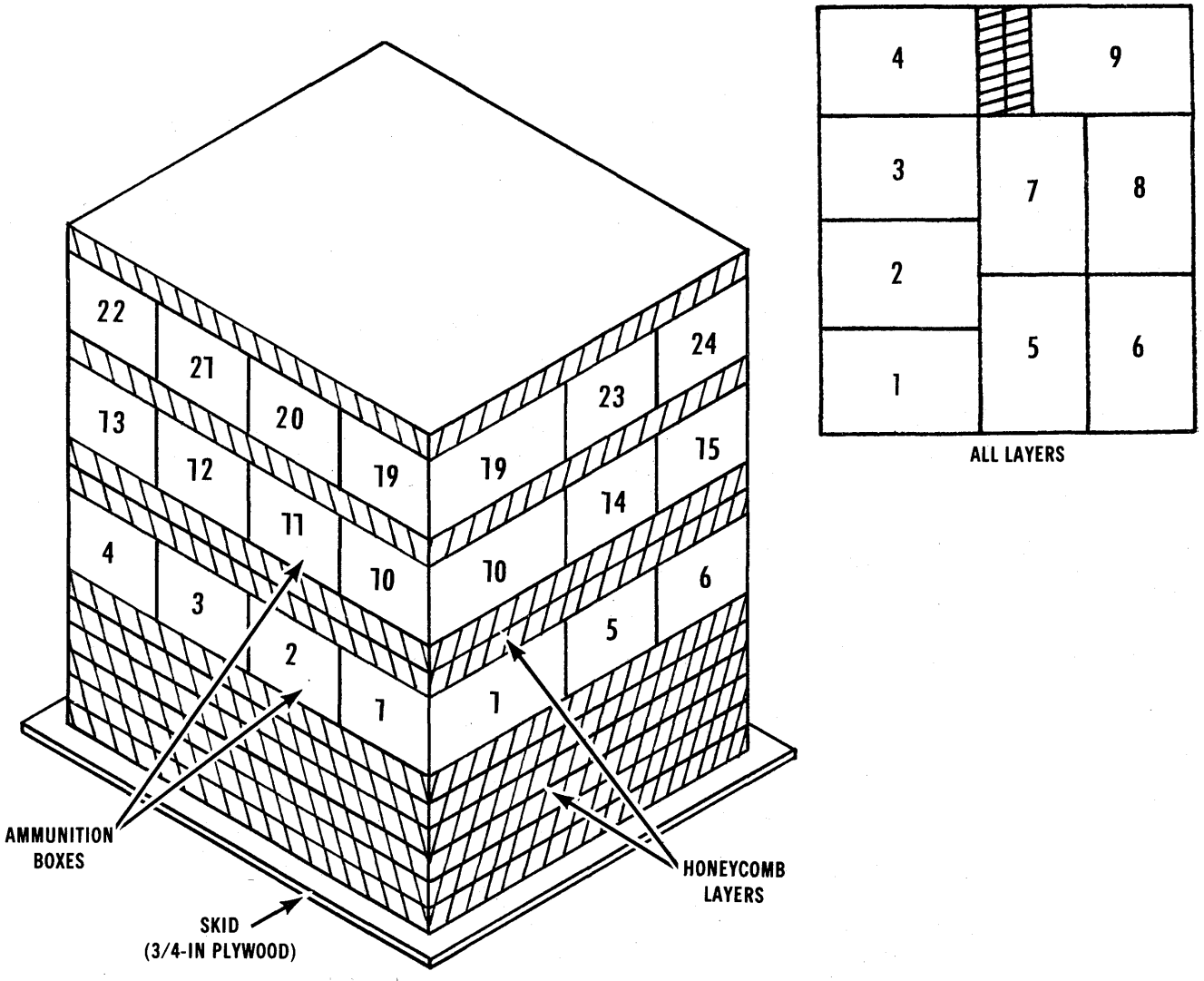


Figure 2-45

The following ammunition items are rigged in an A-22 cargo bag for high-velocity airdrop as shown in figure 2.45.

7.62-Millimeter Ammunition

Cartridge, 7.62-mm, M62 Linked 800/box (DODAC 1305-A137)
Cartridge, 7.62-mm, Ball, M80 Linked 800/box (DODAC 1305-A143)
Cartridge, 7.62-mm, Tracer, M62 Linked 800/box (DODAC 1305-A146)

.30-Caliber Ammunition

Cartridge, Cal .30 Ball, M2 Clipped 768/box (DODAC 1305-A216)
Cartridge, Cal .30 Tracer, M1 or M25 Clipped, 768/box (DODAC 1305-A234)

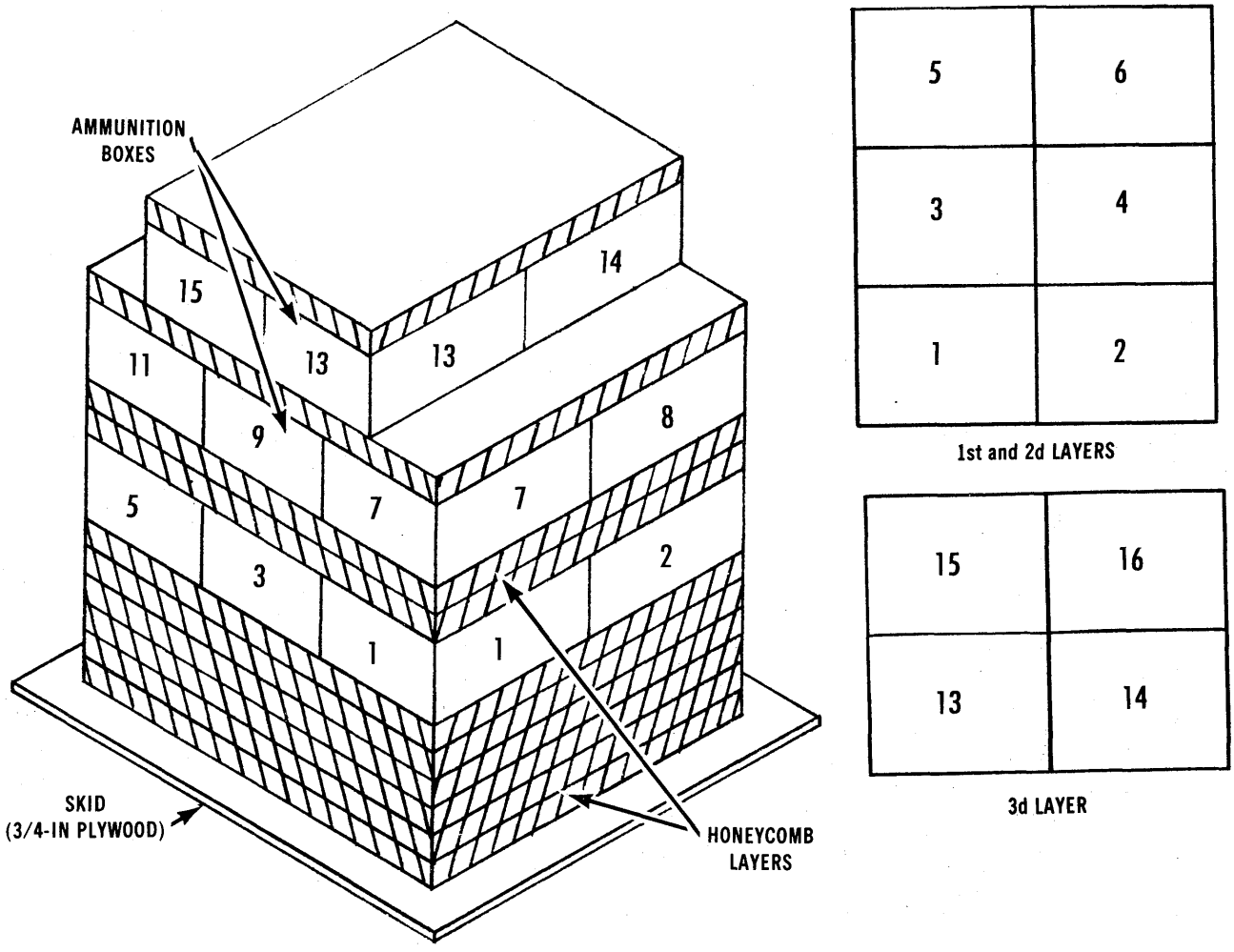


Figure 2-46

The following ammunition items are rigged in an A-22 cargo bag for high-velocity airdrop as shown in figure 2-46.

7.62-Millimeter Ammunition

Cartridge, 7.62-mm, Linked, 9-Ball, M80, 1 TR, XM 276 (DODAC 1305-A163)
Cartridge, 7.62-mm, Linked, 9-Ball, M80, 1 TR, M62 (DODAC 1305-A165)

.30-Caliber Ammunition

Cartridge, Cal .30, AP API, CTN, Grade R (DODAC 1305-A201)
Cartridge, Cal .30, AP API, CTN, Grade MG (DODAC 1305-A202)

.50-Caliber Ammunition

Cartridge, Cal .50, APIT, M20, Carton, Grade MG (DODAC 1305-A542)

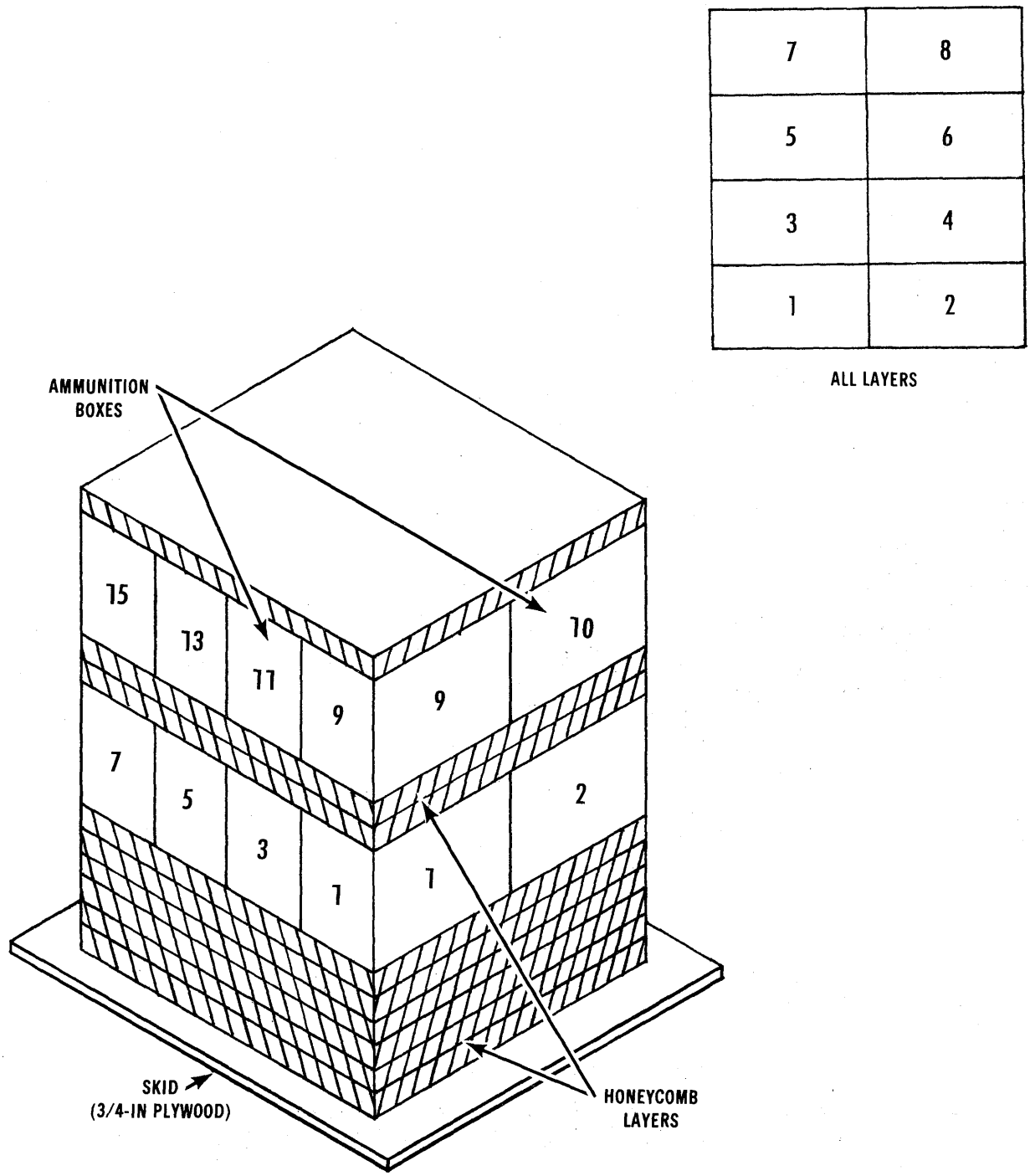

7
8
5
6
3
4
1
2
ALL LAYERS
AMMUNITION BOXES
15
13
11
9
9
10
7
5
3
1
1
2
SKID
(3/4-IN PLYWOOD)
HONEYCOMB LAYERS

Figure 2-47

The following ammunition items are rigged in an A-22 cargo bag for high-velocity airdrop as shown in figure 2-47.

.30-Caliber Ammunition

Cartridge, Cal .30, Ball, M2 Clipped (DODAC 1305-A214)
Cartridge, Cal .30, Tracer, M1, Clipped (DODAC 1305-A232)

.32-Caliber Ammunition

Cartridge, Cal .32, Bal, Auto 71, Grain (DODAC 1305-A350)

.38-Caliber Ammunition

Cartridge Cal .38, Special, Ball, M41 (DODAC 1305-A400)

.50-Caliber Ammunition

Cartridge, Cal .50, API, M8 Carton, Grade MG or API-T, M20 (DODAC 1305-A532)
Cartridge, Cal .50, API, M8 Linked, with M2, Grade MG (DODAC 1305-A534)

40-Millimeter Ammunition

Cartridge, 40-mm, HEI-T, SD, M3 (DODAC 1310-B559)

Demolition Items

Charge, Demolition, Shaped, 40-lb, M3 (DODAC 1375-M421)
Dynamite, Military, M1 (DODAC 1375-M591)
Charge, Assembly, Demolition, M183 (DODAC 1375-M757)

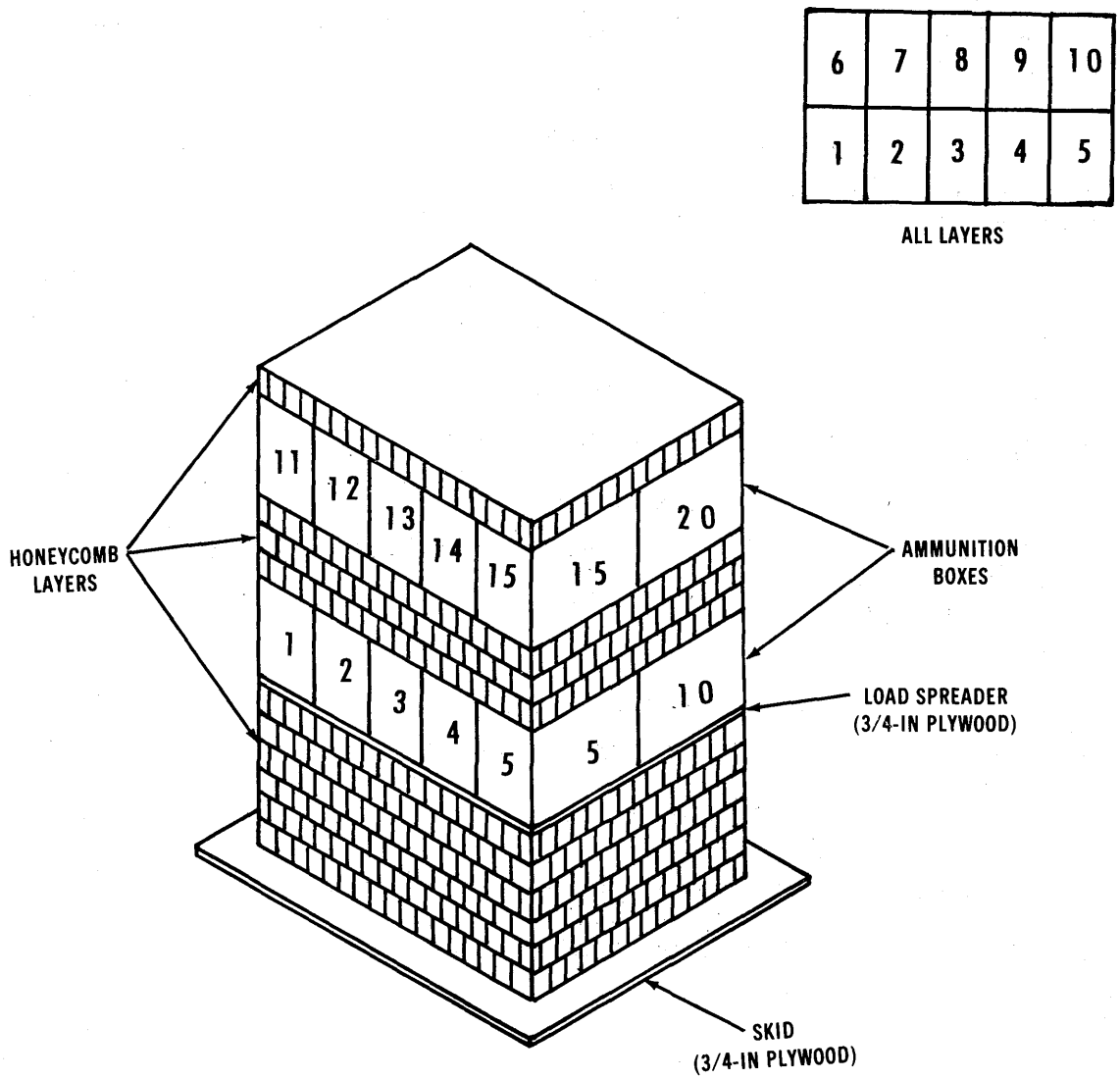


Figure 2-48

The following ammunition items are rigged in an A-22 cargo bag for high-velocity airdrop as shown in figure 2-48.

20-Millimeter Ammunition

Cartridge, 20-mm, Linked, 4-HEI/TP-T (DODAC 1305-A653)
Cartridge, 20-mm, Linked, M56A3 (DODAC 1305-A655)
Cartridge, 20-mm, Linked, HEAT-SD, M246 (DODAC 1305-A792)

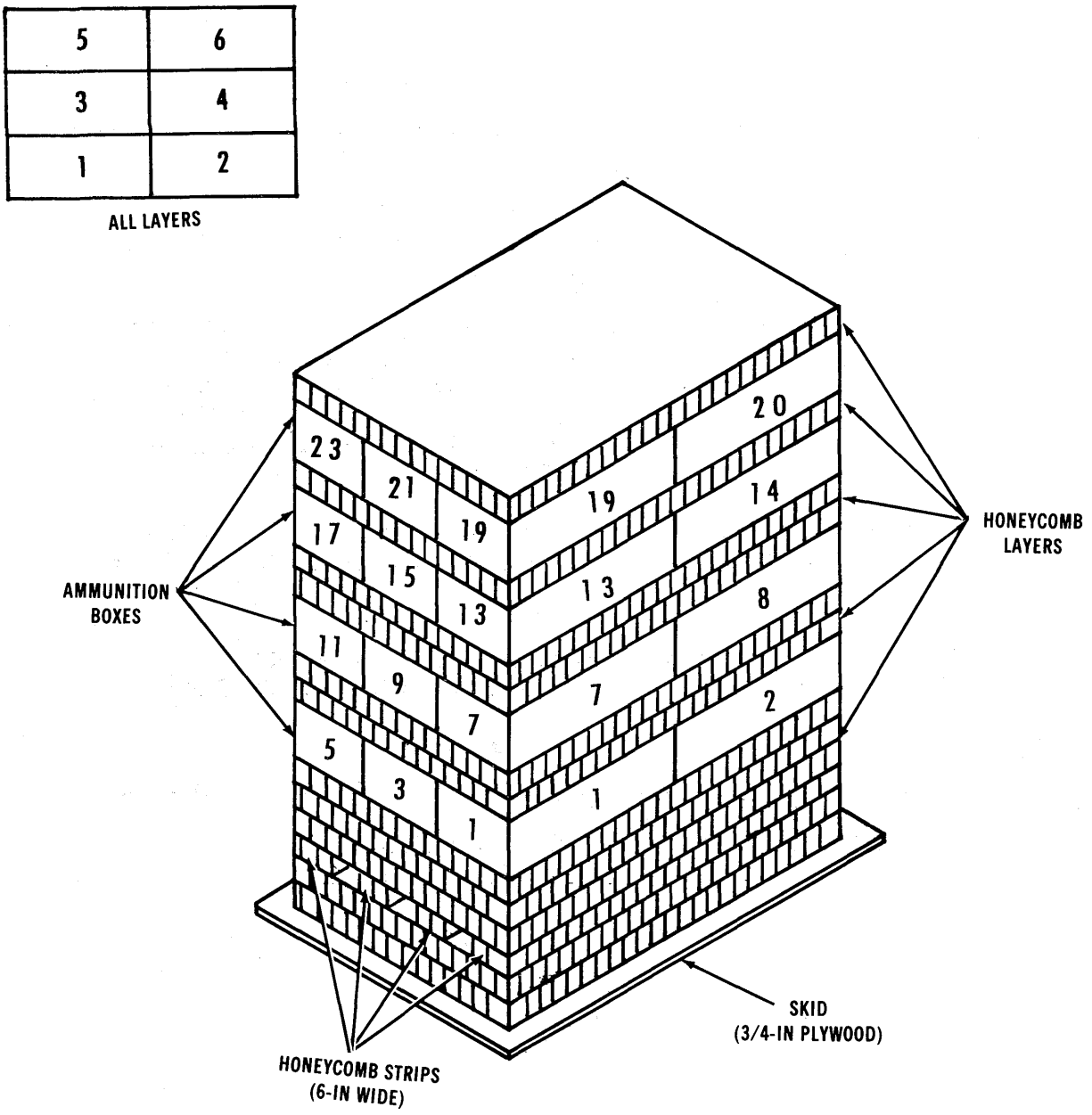


Figure 2-49

The following ammunition items are rigged in an A-22 cargo bag for high-velocity airdrop as shown in figure 2-49.

40-Millimeter Ammunition

Cartridge, 40-mm, HEDP, M433 (DODAC 1310-B470)
Cartridge, 40-mm, HE, M430 (DODAC 1310-B542)
Cartridge, 40-mm, HE, Linked, M38E1 (DODAC 1310-B471)

81-Millimeter Ammunition

Caution must be used after airdrop of 81-mm ammunition since possible detonation and drop zone contamination may occur.

Cartridge, 81-mm, HE, M362 (DODAC 1315-C222)
Cartridge, 81-mm, HE, M362 (DODAC 1315-C223)
Cartridge, 81-mm, HE, M43A1 (DODAC 1315-C225)
Cartridge, 81-mm, HE, M374A2 (DODAC 1315-C236)
Cartridge, 81-mm, HE, M374A2, with Fuze M524A5 (DODAC 1315-C256)
Cartridge, 81-mm, HE, M374A2, with Fuze M524A6 (DODAC 1315-C256)
Cartridge, 81-mm, HE, M374A2, with Fuze M526 (DODAC 1315-C256)
Cartridge, 81-mm, HE, M374A2, with Fuze, M567 (DODAC 1315-C256)
Cartridge, 81-mm, HE, M374A2, with Fuze, M716 (DODAC 1315-C256)
Cartridge, 81-mm, Smoke, WP, M375A2, with Fuze PD 524A6 (DODAC 1315-C276)
Cartridge, 81-mm, Smoke, WP, M375A2, with Fuze M526 (DODAC 1315-C276)
Cartridge, 81-mm, Smoke, WP, M375A2, without Fuze (DODAC 1315-C276)

Grenades

Grenade, Hand, Fragmentation, M26A2 (DODAC 1330-G889)
Grenade, Hand, Fragmentation, M26 or M26A1 (DODAC 1330-G890)

Demolition Items

Charge, Demolition Chain, M1, Eight 2 1/2-lb Tetrytol Charge Strung on Detonating Cord (DODAC 1375-M035)
Charge, Demolition Block, M2 (DODAC 1375-M036)

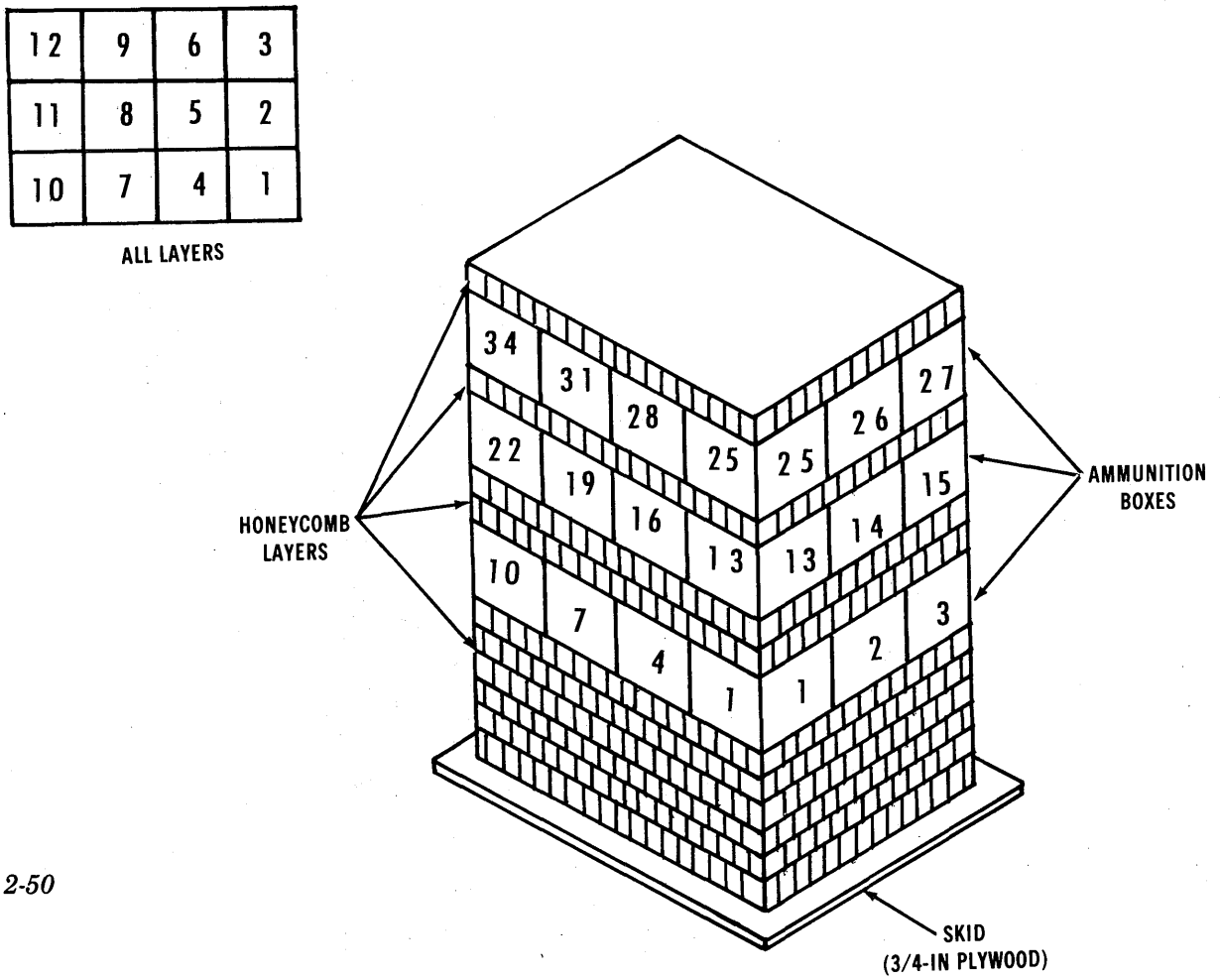


Figure 2-50

The following ammunition items are rigged in an A-22 cargo bag for high-velocity as shown in figure 2-50.

40-Millimeter Ammunition

Cartridge, 40-mm, White Star, M583A1 (DODAC 1310-B535)

Grenades

Cartridge, Grenade, Rifle, NATO, 7.62-mm, M64 (DODAC 1330-G839)
Grenade, Hand, Incendiary, TH-3, AN-M14, with Fuze, M201A1 (DODAC 1330-G900)

Mine

Mine, Antipersonnel, M16A1, with Fuze Mine M605 (DODAC 1345-K092)

Demolition Items

Charge, Demolition Block, Comp C4 1 1/4-lb, M112 (DODAC 1375-M023)
Firing Device, Demolition, M3 Pull Release Type (DODAC 1375-M629)
Charge, Assembly, Demolition, M37 (DODAC 1375-M756)

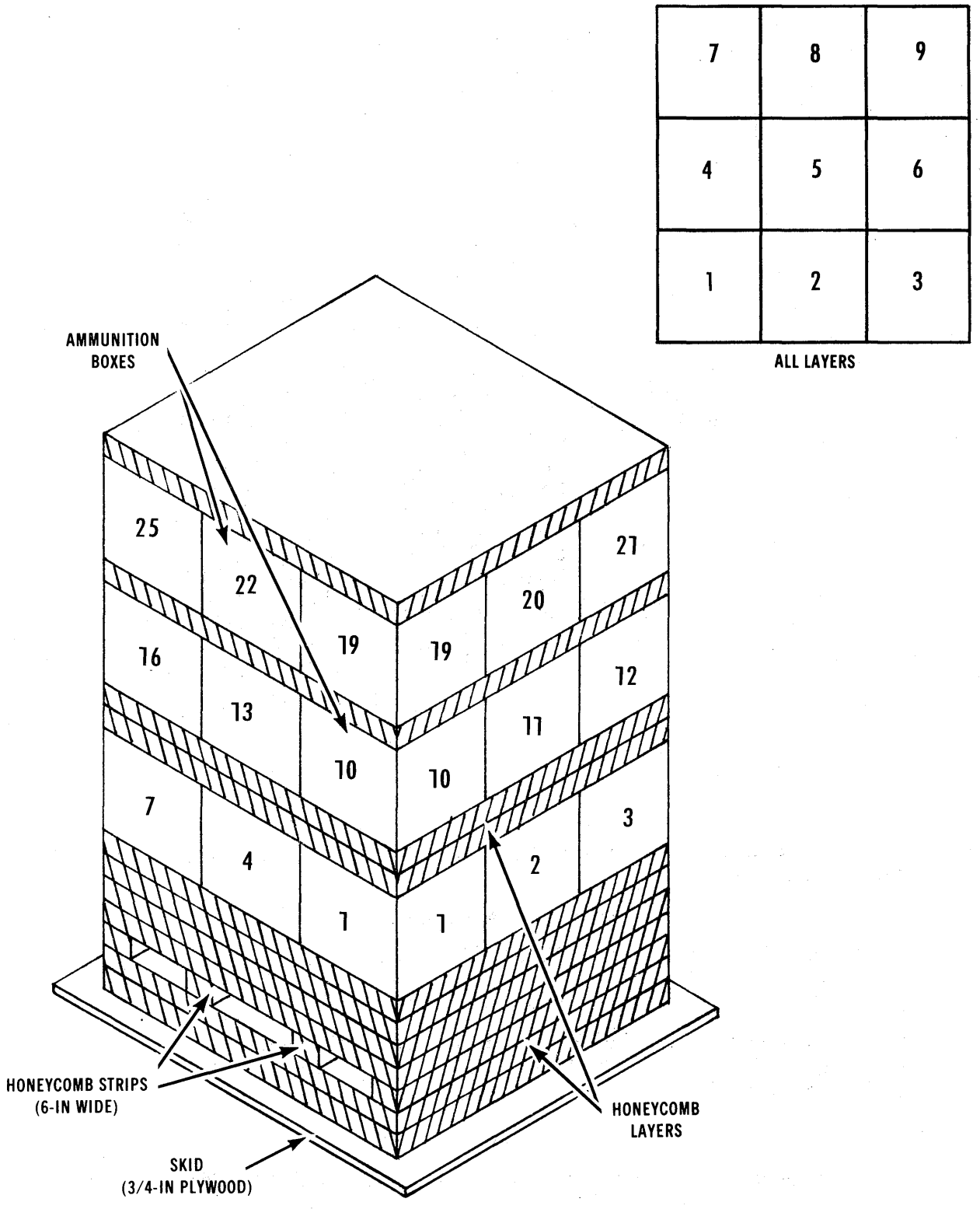

7
8
9
4
5
6
1
2
3
ALL LAYERS
AMMUNITION BOXES
25
22
19
19
20
27
16
13
10
10
11
12
7
4
1
1
2
3
HONEYCOMB STRIPS (6-IN WIDE)
SKID (3/4-IN PLYWOOD)
HONEYCOMB LAYERS

Figure 2-51

The following ammunition items are rigged in an A-22 cargo bag for high-velocity airdrop as shown in figure 2-51.

40-Millimeter Ammunition

Cartridge, 40-mm, HEDP, M433 (DODAC 1310-B546)

Demolition Item

Coupling Base, Firing Device with Primer, Percussion M27
(DODAC 1375-M327)

Ignition cylinders, flamethrower, M1 will detonate on ground impact if parachute malfunctions. These ignitors do not contain explosives but will burn, producing an intense heat.

Ignition Cylinder, Portable Flamethrower, M1, Type II
(DODAC 1375-M680)

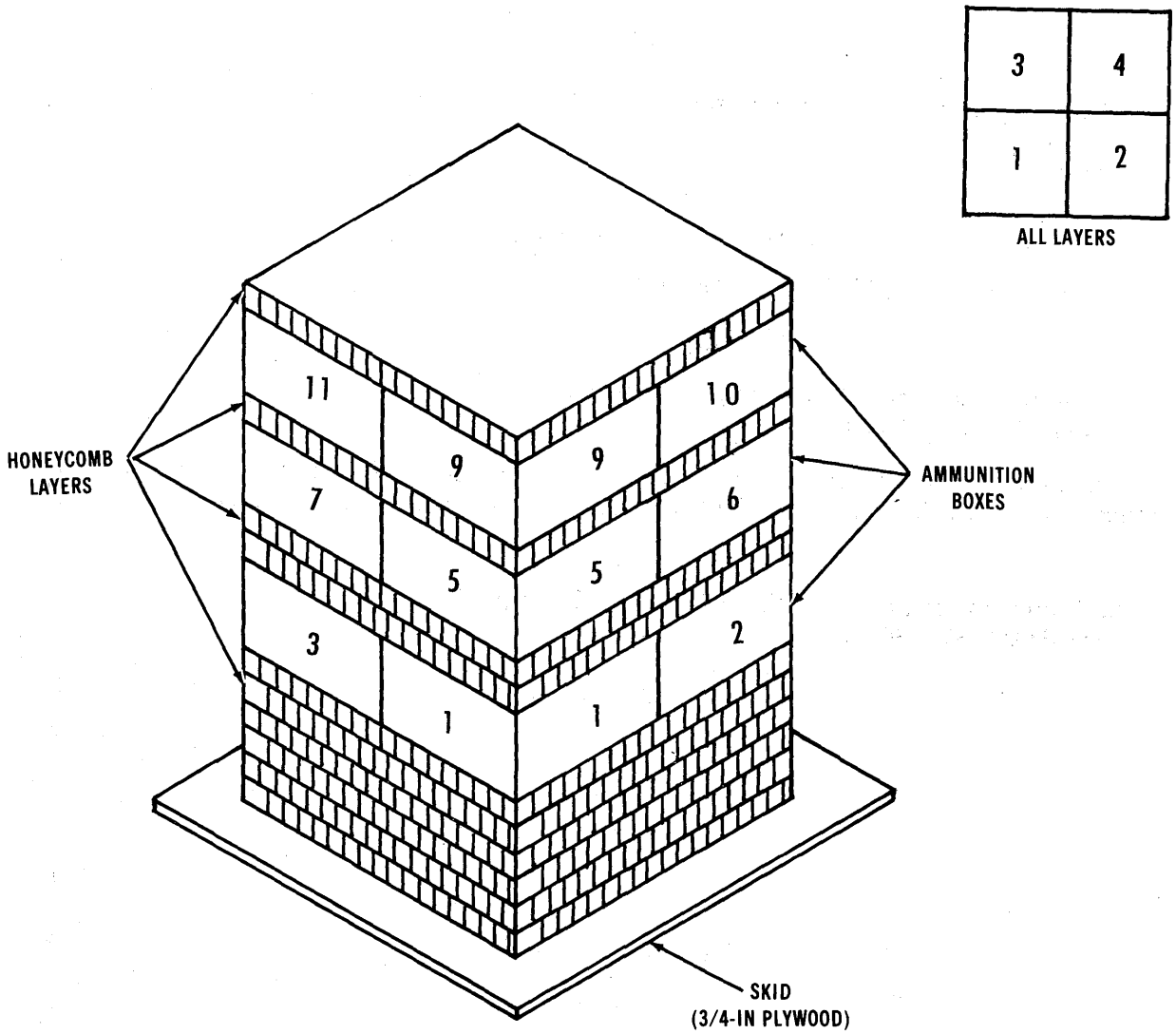


Figure 2-52

The following ammunition items are rigged in an A-22 cargo bag for high-velocity airdrop as shown in figure 2-52.

40-Millimeter Ammunition

Cartridge, 40-mm, AP-T, M81 (DODAC 1310-B552)
Cartridge, 40-mm, HE-T, SD, M3, MK11, MK2 (DODAC 1310-B562)

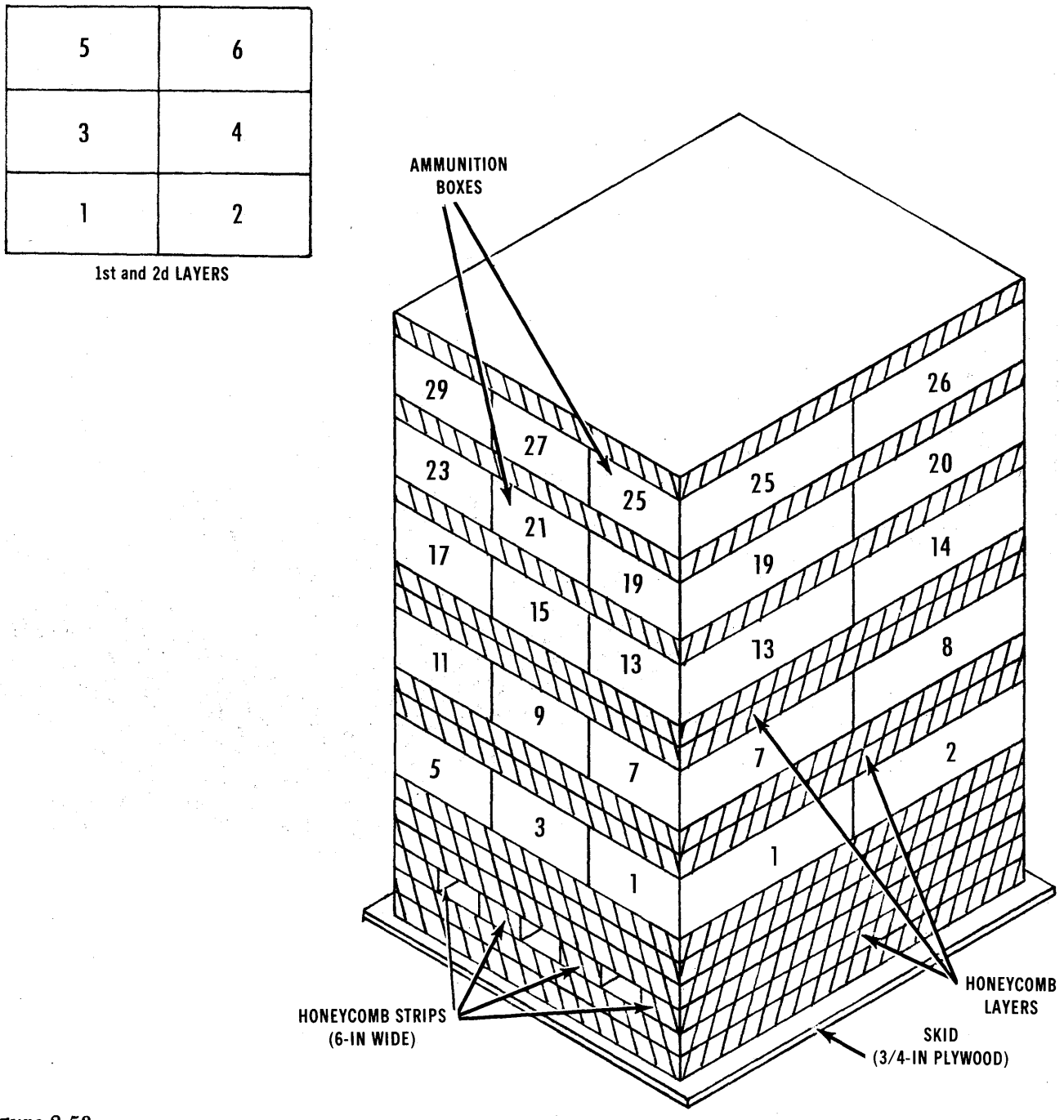


Figure 2-53

The following ammunition item is rigged in an A-22 cargo bag for high-velocity airdrop as shown in figure 2-53.

40-Millimeter Ammunition

Cartridge, 40-mm, HE, Linked M384 (DODAC 1310-B572)

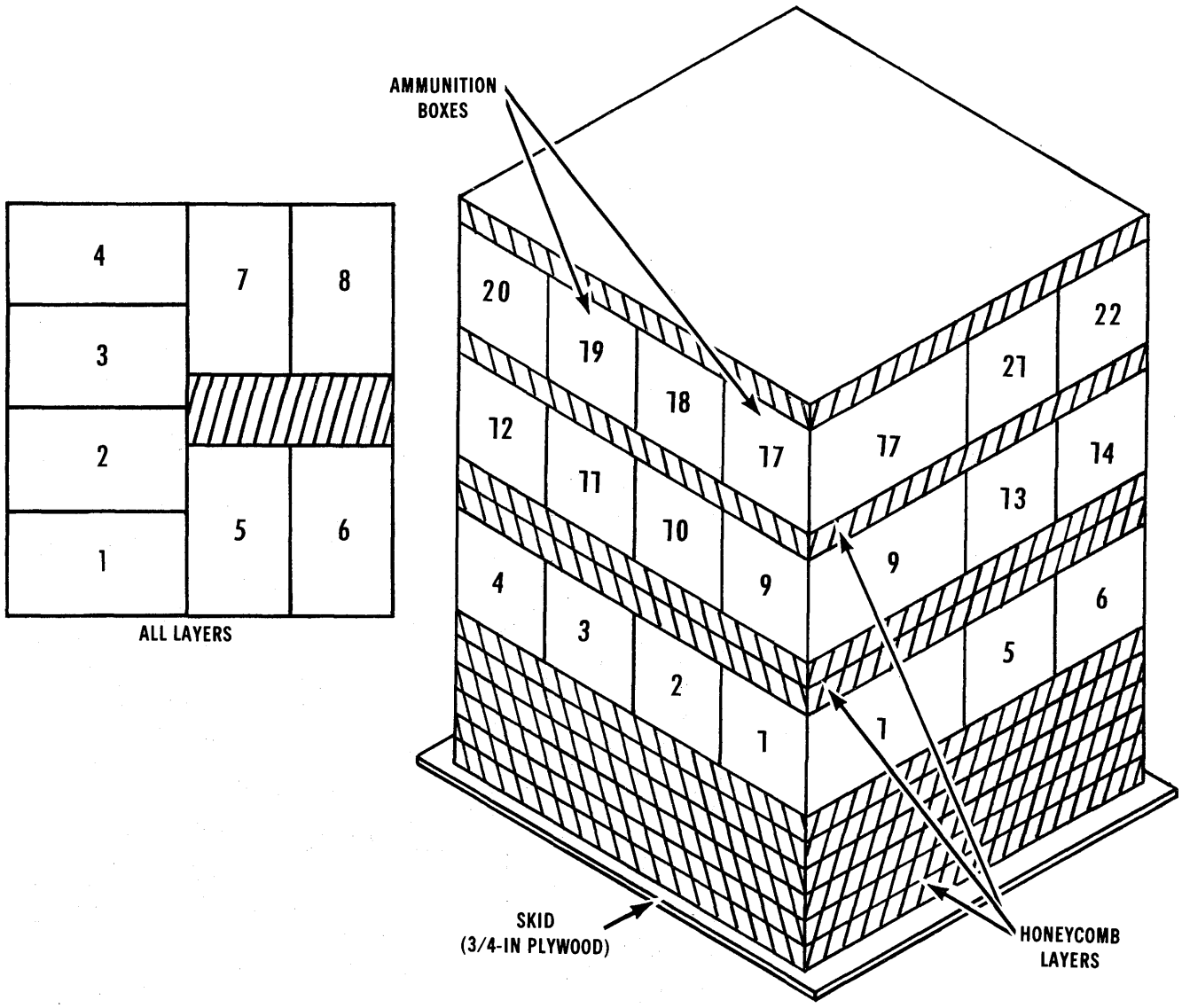


Figure 2-54

The following ammunition items are rigged in an A-22 cargo bag for high-velocity airdrop as shown in figure 2-54.

60-Millimeter Ammunition

Cartridge, 60-mm, Illuminating, M83A3 (DODAC 1310-B627)
Cartridge, 60-mm, Smoke, WP, M302A1 (DODAC 1310-B630)

Grenade

Grenade, Hand Fragmentation, M67, with Fuze (DODAC 1330-G881)

Signal Items

Signal, Illuminating, A/C, Single Star, AN-43A2, Red (DODAC 1370-L231)
Signal, Illuminating, A/C, Single Star, AN-M45A2, Green (DODAC 1370-L233)

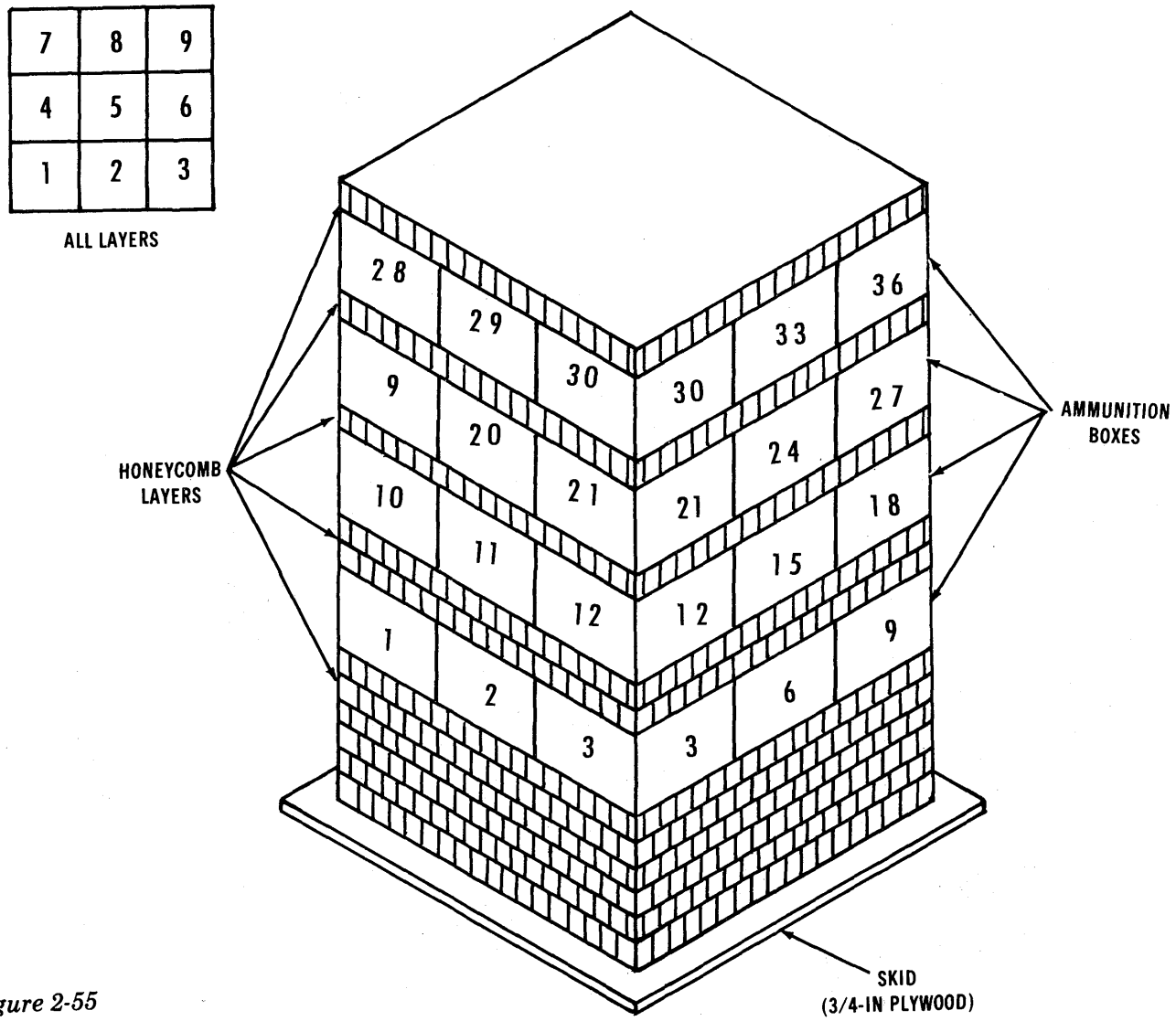


Figure 2-55

The following ammunition items are rigged in an A-22 cargo bag for high-velocity airdrop as shown in figure 2-55.

60-Millimeter Ammunition

Cartridge, 60-mm, HE, M49A4 (DODAC 1310-B632)

Grenades

If parachute malfunctions, smoke grenades may detonate on ground impact and could contaminate the drop zone.

Grenade, Hand, Smoke, HC, ABC, AN-M18, with Fuze (DODAC 1330-G930)
Grenade, Hand, Green Smoke, M18, with Fuze (DODAC 1330-G940)
Grenade, Hand, Yellow Smoke, M18, with Fuze (DODAC 1330-G945)
Grenade, Hand, Red Smoke, M18, with Fuze (DODAC 1330-G950)
Grenade, Hand, Violet Smoke, M18, with Fuze, M201A1 (DODAC 1330-G955)
Grenade, Hand, Riot Control, M7A3, with Fuze (DODAC 1330-G963)

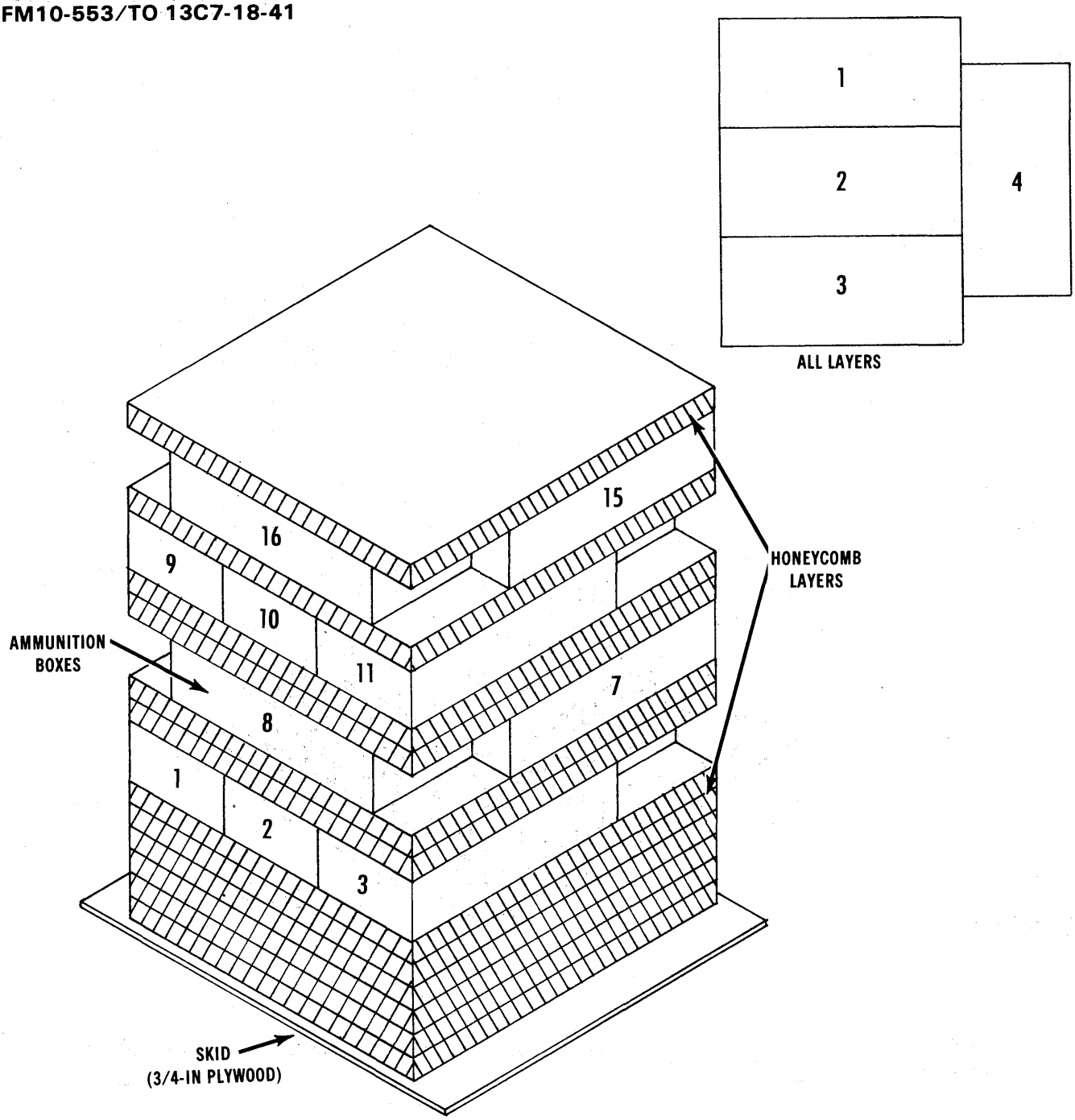


Figure 2-56

The following ammunition item is rigged in an A-22 cargo bag for high-velocity method of airdrop as shown in figure 2-56.

81-Millimeter Ammunition

Caution must be used after airdrop of 81-mm ammunition since possible detonation and drop zone contamination may occur.

Cartridge, 81-mm, Illuminating, M301A3 (DODAC 1315-C226)

10	5
9	4
8	3
7	2
6	1

ALL LAYERS

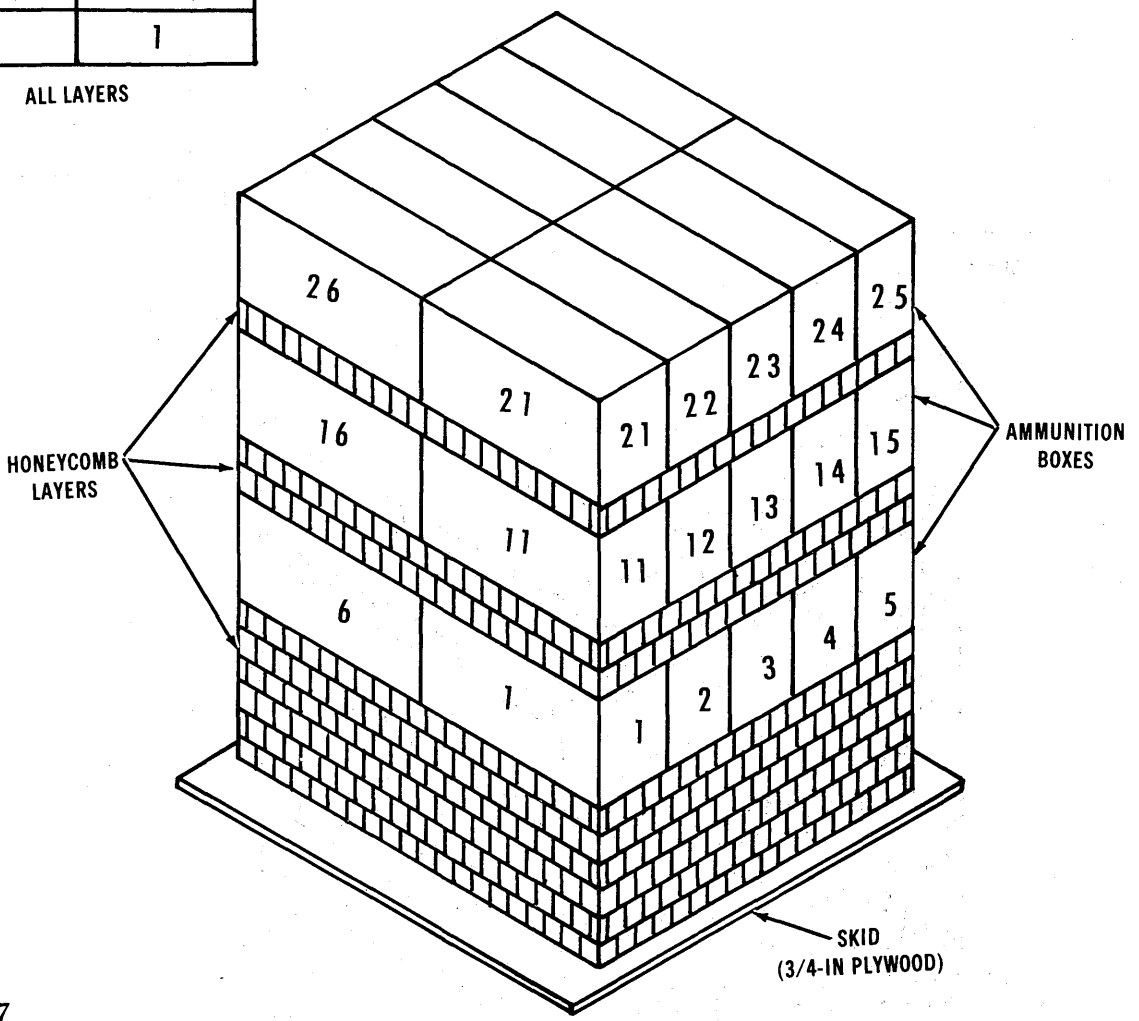


Figure 2-57

The following ammunition items are rigged in an A-22 cargo bag for high-velocity method of airdrop as shown in figure 2-57.

81-Millimeter Ammunition

Caution must be used after airdrop of 81-mm ammunition since possible detonation and drop zone contamination may occur.

Cartridge, 81-mm, Smoke, WP, M57 (DODAC 1315-C230)

Mine

Activator, Mine, AR, M1 (DODAC 1345-K001)

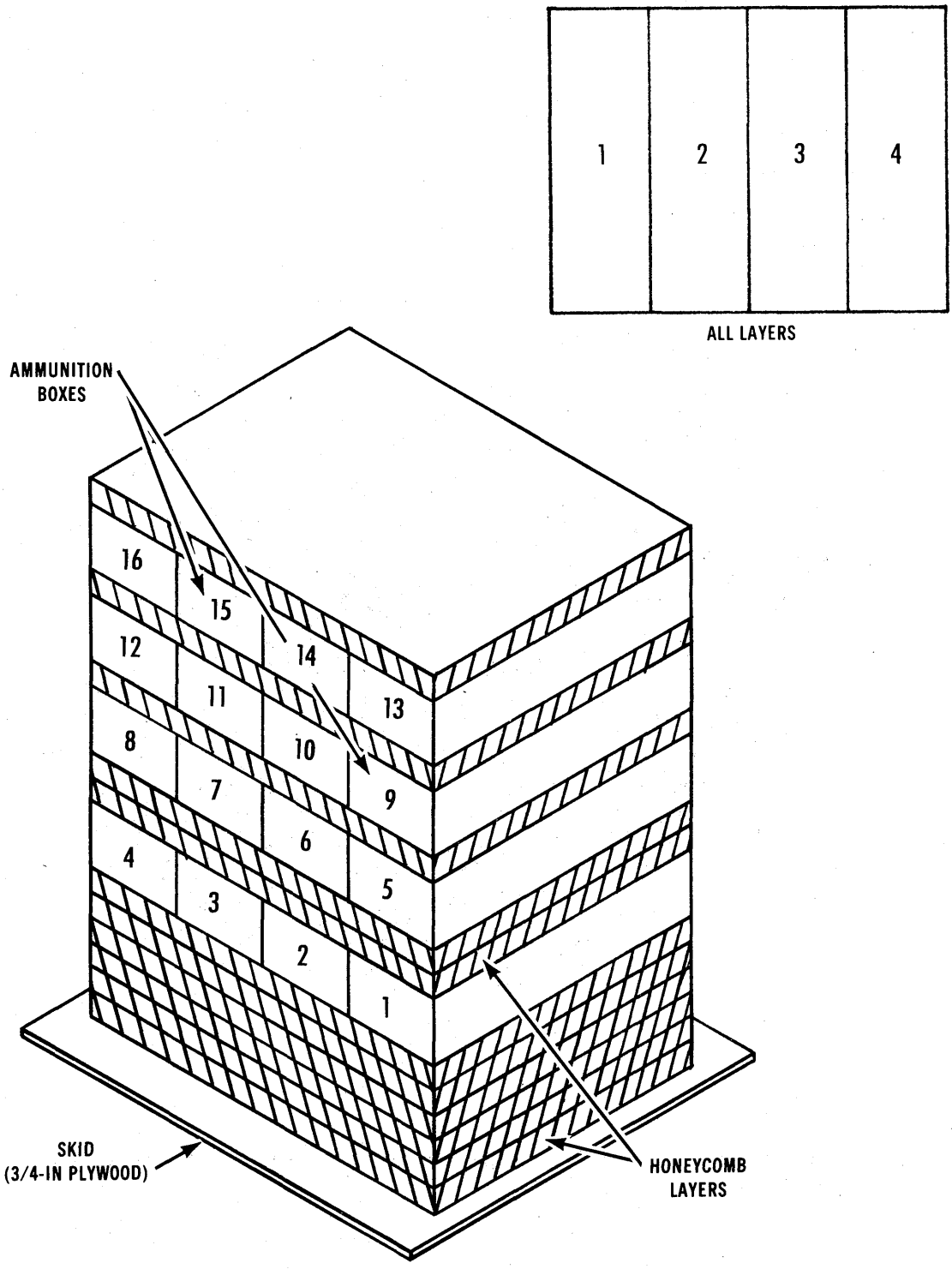

1
2
3
4
ALL LAYERS
AMMUNITION BOXES
16
15
14
12
11
13
8
10
9
7
6
4
5
3
2
1
SKID (3/4-IN PLYWOOD)
HONEYCOMB LAYERS

Figure 2-58

The following ammunition items are rigged in an A-22 cargo bag for high-velocity airdrop as shown in figure 2-58.

90-Millimeter Ammunition

90-mm ammunition will contaminate the drop zone in the event of a parachute malfunction.

Cartridge, 90-mm, WP, M313C (DODAC 1315-C258)
Cartridge, 90-mm, APC-T, M82 (DODAC 1315-C260)
Cartridge, 90-mm, HE, M71 (DODAC 1315-C265)
Cartridge, 90-mm, HE, M71 (DODAC 1315-C266)
Cartridge, 90-mm, HE, M71 (DODAC 1315-C267)
Cartridge, 90-mm, Smoke, WP, M313 (DODAC 1315-C273)
Cartridge, 90-mm, APERS-T, M580 (DODAC 1315-C275)
Cartridge, 90-mm, HE-T M71A1 with Fuze PD, M557 (DODAC 1315-C280)
Cartridge, 90-mm, AP-T, M318 or M318A1 (DODAC 1315-C285)
Cartridge, 90-mm, HEP-T, T142E3 (DODAC 1315-C292)
Cartridge, 90-mm, HEAT, M431 (DODAC 1315-C294)
Cartridge, 90-mm, Canister, M377 (DODAC 1315-C601)

105-Millimeter Ammunition

Cartridge, 105-mm, HE, M1 (DODAC 1315-C443)
Cartridge, 105-mm, HE, M1 (DODAC 1315-C444)
Cartridge, 105-mm, HE, M1 (DODAC 1315-C445)
Cartridge, 105-mm, HEP-T, M327 (DODAC 1315-C448)
Cartridge, 105-mm, Illuminating, M314A3 (DODAC 1315-C449)
Cartridge, 105-mm, Smoke, HC, BE, M84, or M84A1 (DODAC 1315-C452)
Cartridge, 105-mm, Smoke, WP, M60 (DODAC 1315-C454)
Cartridge, 105-mm, HE, M444 (DODAC 1315-C462)
Cartridge, 105-mm, Tactical, CS, M629 (DODAC 1315-C468)
Cartridge, 105-mm, Smoke, WP, M60 (DODAC 1315-C477)
Cartridge, 105-mm, APERS-T, M546, with Fuze MT, M563 (DODAC 1315-C513)

106-Millimeter Ammunition

Cartridge, 106-mm, HEAT, M344A1 (DODAC 1315-C650)
Cartridge, 106-mm, HEP-T, M346A1 (DODAC 1315-C651)
Cartridge, 106-mm, APERS-T, M581 (DODAC 1315-C660)

Demolition Item

Explosive Kit Earth Rod, Set No. 1 (DODAC 1375-M820)

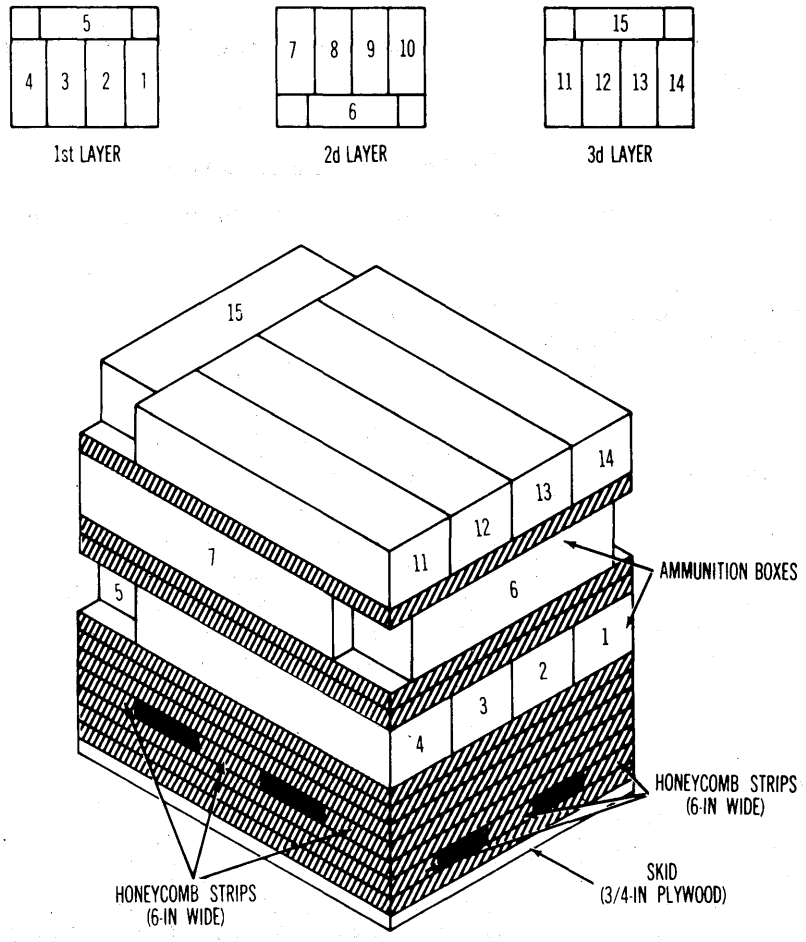


Figure 2-59

The following ammunition items are rigged in an A-22 cargo bag for high-velocity airdrop as shown in figure 2-59.

90-Millimeter Ammunition

90-millimeter ammunition will contaminate the drop zone if parachute malfunctions.

(Rigging boxes)

Cartridge, 90-mm, HEAT, M371 (DODAC 1315-C282)

Demolition Items

Charge, Demolition, Block, 40-lb Cratering Ammonia Nitrate (DODAC 1375-M039)
Cord, Detonating, Reinforced Pliofilm/Wrapped Waterproof, Type I (DODAC 1375-M456)

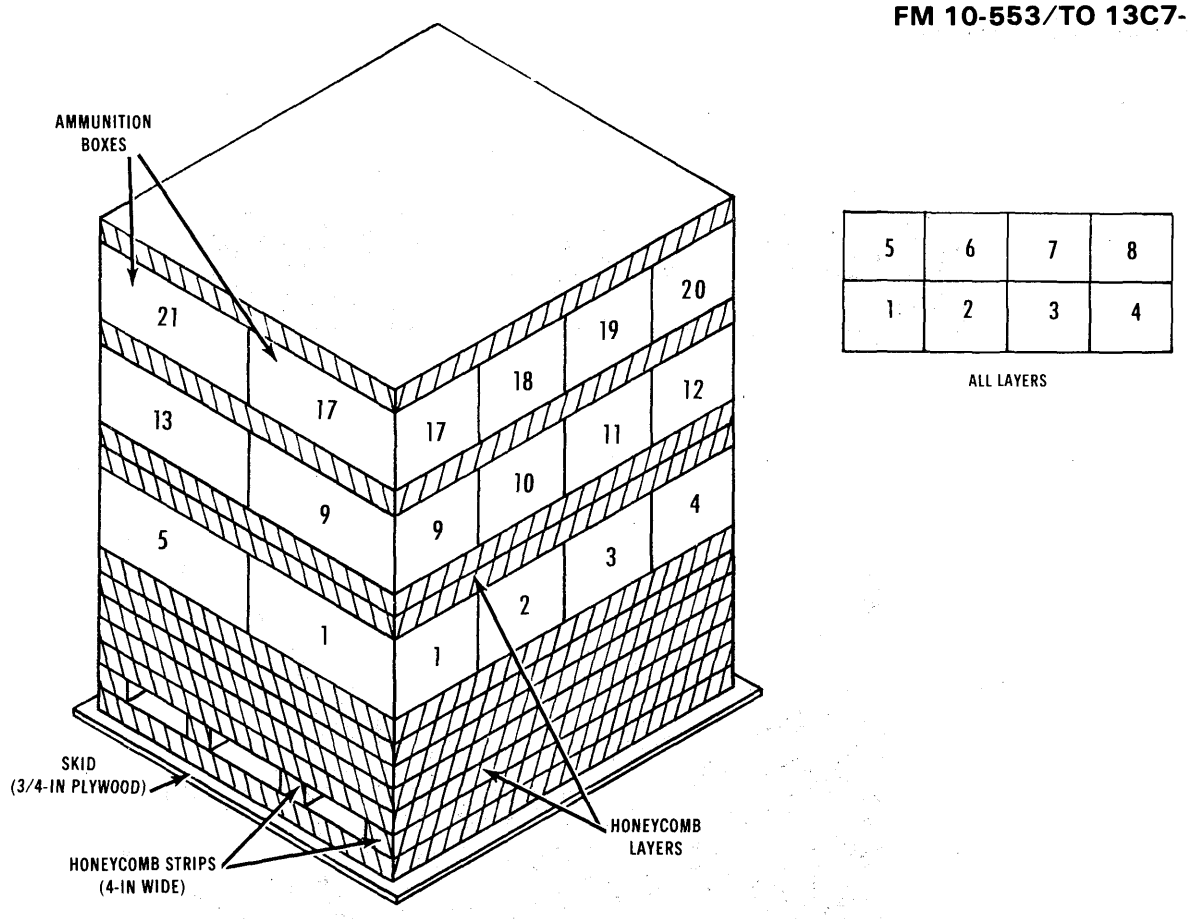


Figure 2-60

The following ammunition items are rigged in an A-22 cargo bag for high-velocity airdrop as shown in figure 2-60.

90-Millimeter Ammunition

90-mm ammunition will contaminate the drop zone if parachute malfunctions.

Cartridge, 90-mm, Canister, Antiper, M590 (DODAC 1315-C410)

Grenade

Grenade, Hand, Fragmentation, M33 (DODAC 1330-G888)

Mines

M26 Mine may detonate on ground impact if parachute malfunctions. All damaged mines and containers must be considered dangerous and must be destroyed in place.

Mine, AP, M26 (DODAC 1345-K146)

Demolition Items

Charge, Demolition, Block, 1/2-lb TNT (DODAC 1375-M031)
Charge, Demolition, Block, 1-lb TNT (DODAC 1375-M032)
Firing Device, Demolition, M5, Pressure Release Type (DODAC 1375-M627)
Firing Device, Demolition, M1, Pull Type (DODAC 1375-M630)

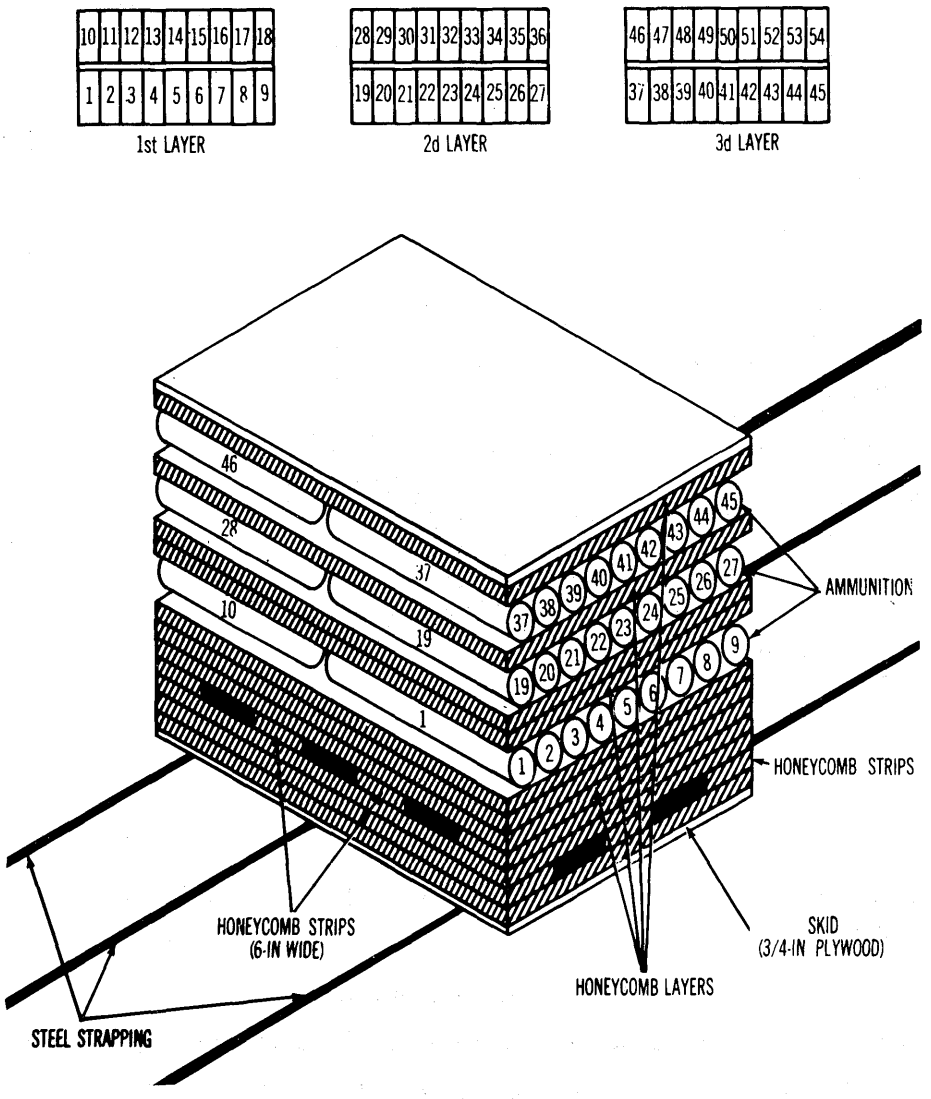


Figure 2-61

The following ammunition item is rigged in an A-22 cargo bag for high-velocity airdrop as shown in figure 2-61.

90-Millimeter Ammunition

90-millimeter ammunition will contaminate the drop zone if parachute malfunctions.

(Rigging Fiber Container)

Cartridge, 90-mm, Canister, Antiper, M590 (DODAC 1315-C410)

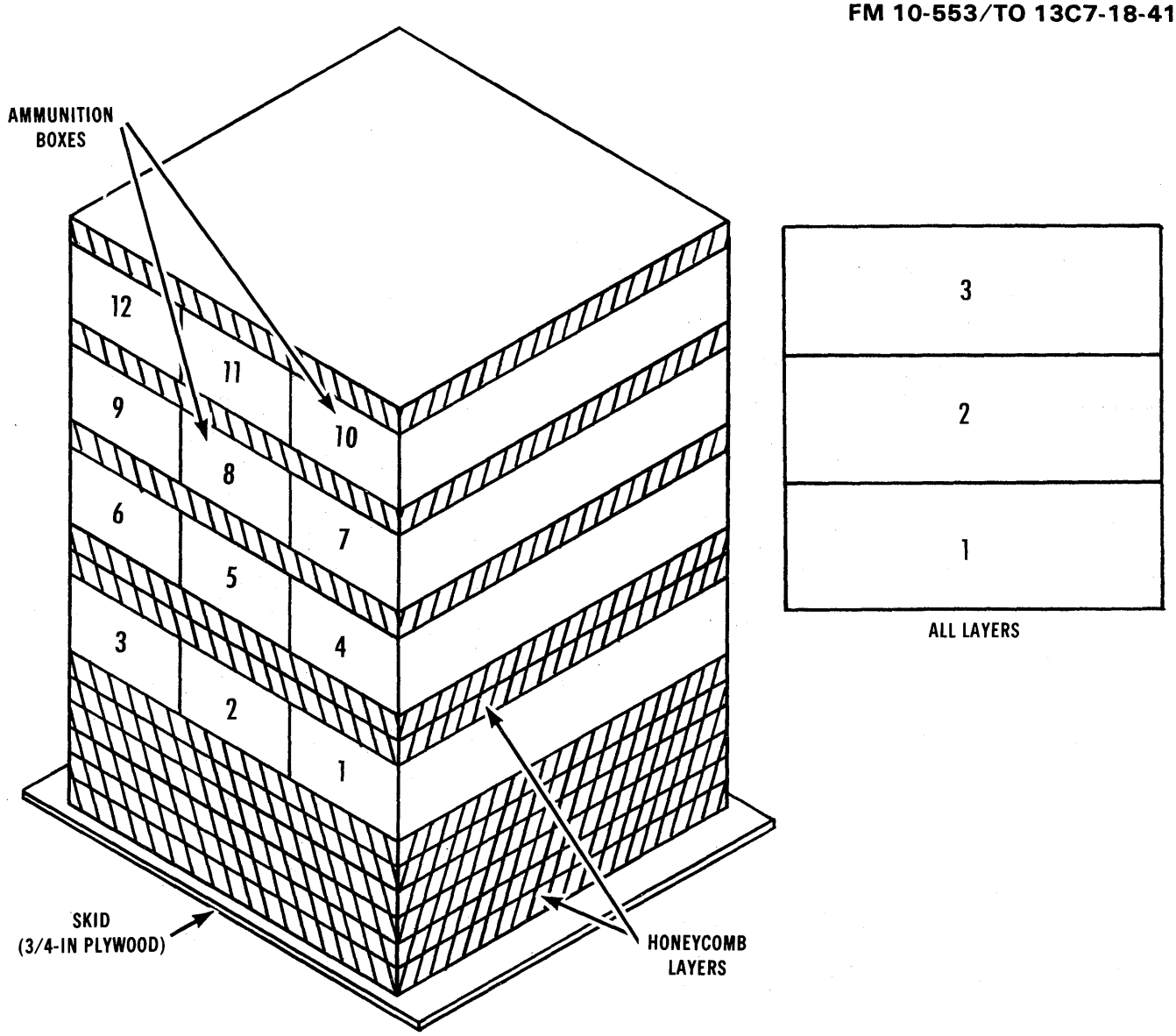


Figure 2-62

The following ammunition items are rigged in an A-22 cargo bag for high-velocity airdrop as shown in figure 2-62.

105-Millimeter Ammunition

Cartridge, 105-mm, HE, XM548E1 (DODAC 1315-C463)
Cartridge, 105-mm, APDS-T, M728 (DODAC 1315-C494)
Cartridge, 105-mm, APDS-T, M392A2 (DODAC 1315-C505)
Cartridge, 105-mm, HEAT-T, M456A1E2 (DODAC 1315-C508)
Cartridge, 105-mm, TP-T, M490 (DODAC 1315-C511)
Cartridge, 105-mm, Smoke, WP-T, M416, with Fuze BD M534A1 (DODAC 1315-C512)
Cartridge, 105-mm, Smoke, WP-T, M416, with Fuze BD M534A1, Steel Case (DODAC 1315-C512)
Cartridge, 105-mm, HEP-T, M393A2 (DODAC 1315-C518)
Cartridge, 105-mm, APER-T, M494, with Fuze M571 (DODAC 1315-C519)

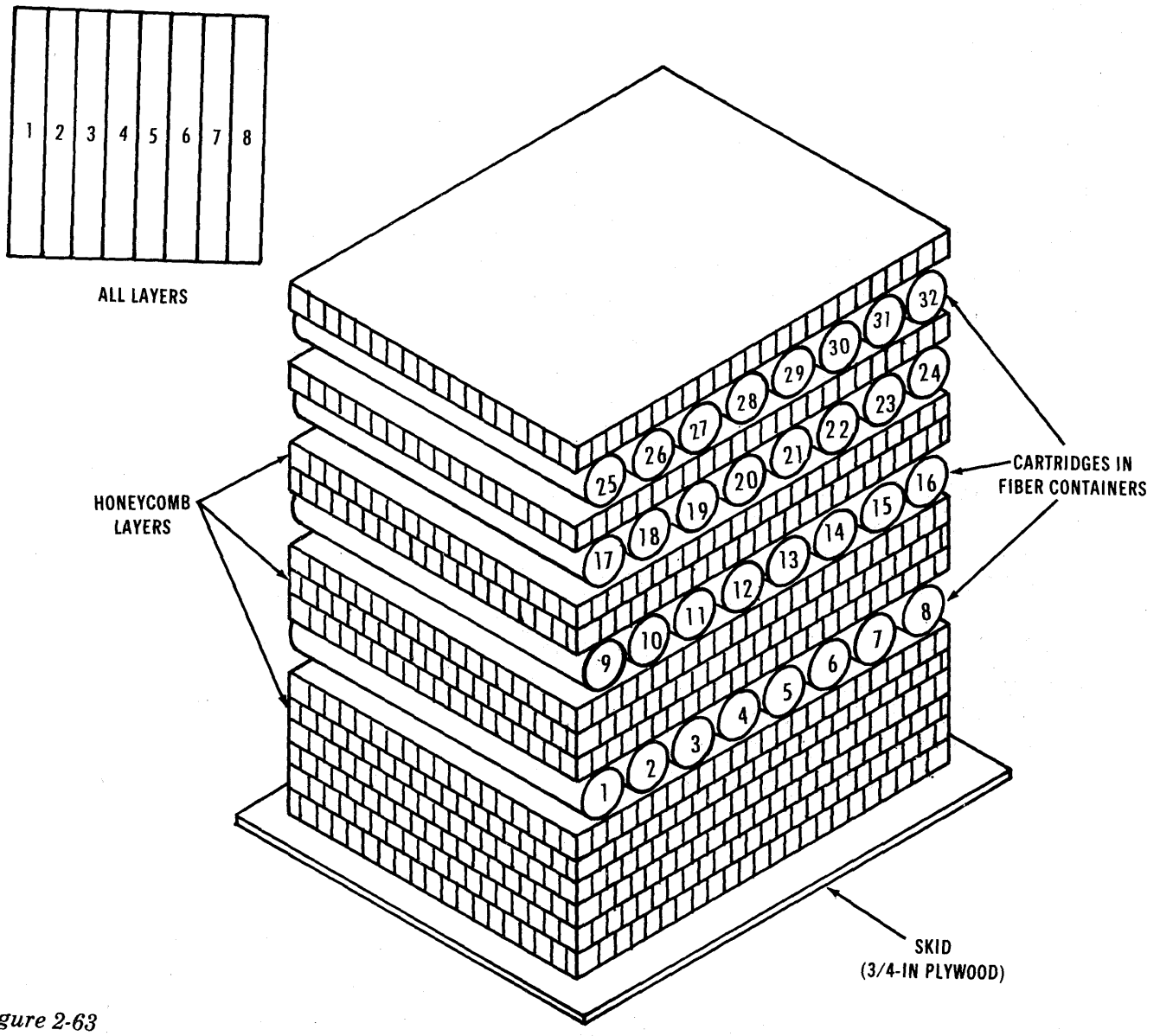


Figure 2-63

The following ammunition items are rigged in an A-22 cargo bag for high-velocity airdrop as shown in figure 2-63.

105-Millimeter Ammunition (Rigging Fiber Container)

Cartridge, 105-mm, HEAT-T, M456E1 (DODAC 1315-C508)
Cartridge, 105-mm, TP-T, M490 (DODAC 1315-C511)

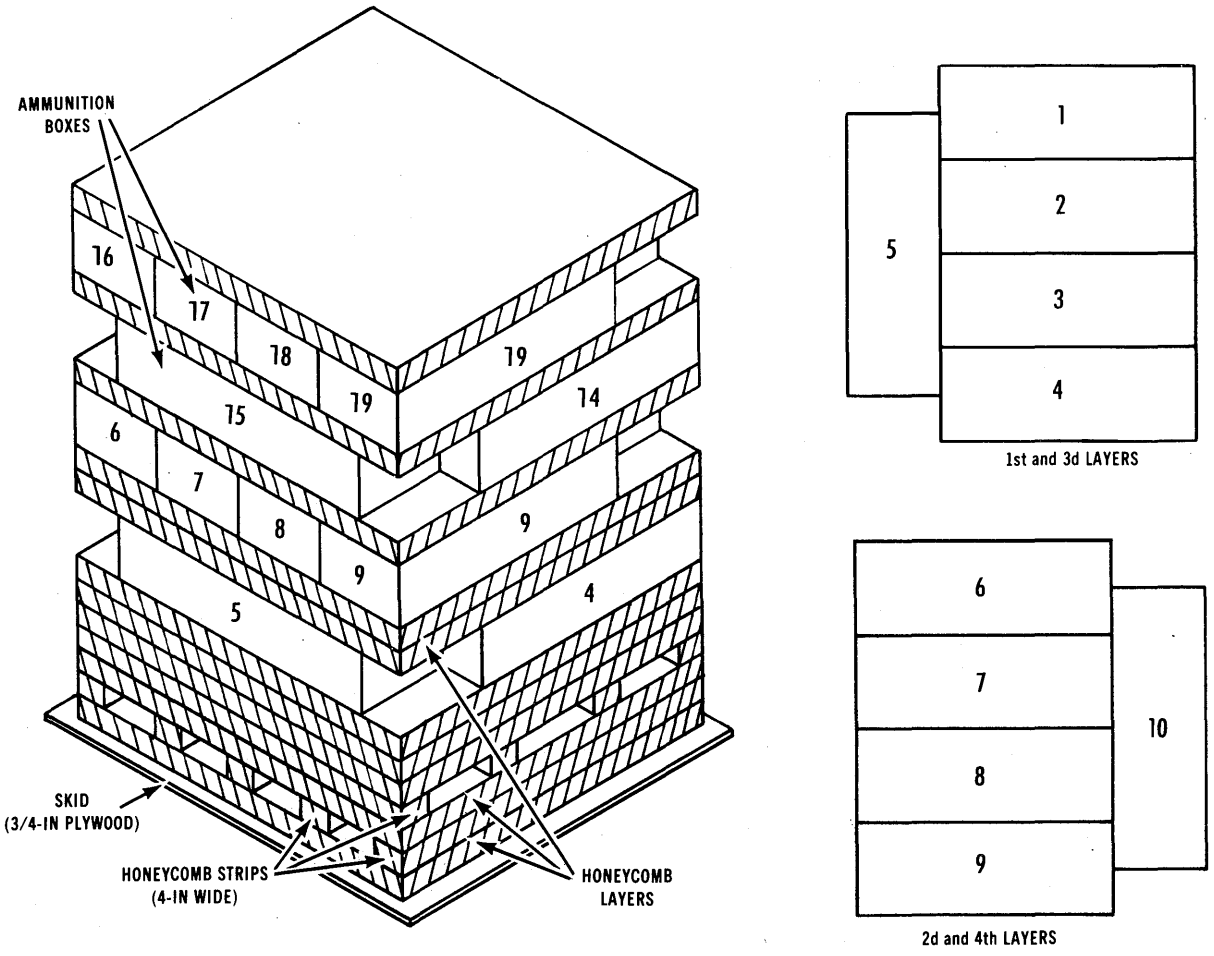


Figure 2-64

The following ammunition items are rigged in an A-22 cargo bag for high-velocity airdrop in accordance with figure 2-64.

4.2 Inch Ammunition

If parachute malfunctions, 4.2-inch ammunition may detonate on ground impact and contaminate the drop zone. All damaged rounds and containers must be considered dangerous and must be destroyed in place.

Cartridge, 4.2-in, HE, M329A1 (DODAC 1315-C704)
Cartridge, 4.2-in, HE, M329A1 (DODAC 1315-C705)
Cartridge, 4.2-in, Illuminating, M335A2 (DODAC 1315-C706)
Cartridge, 4.2-in, Smoke, WP, M328A1 (DODAC 1315-C708)

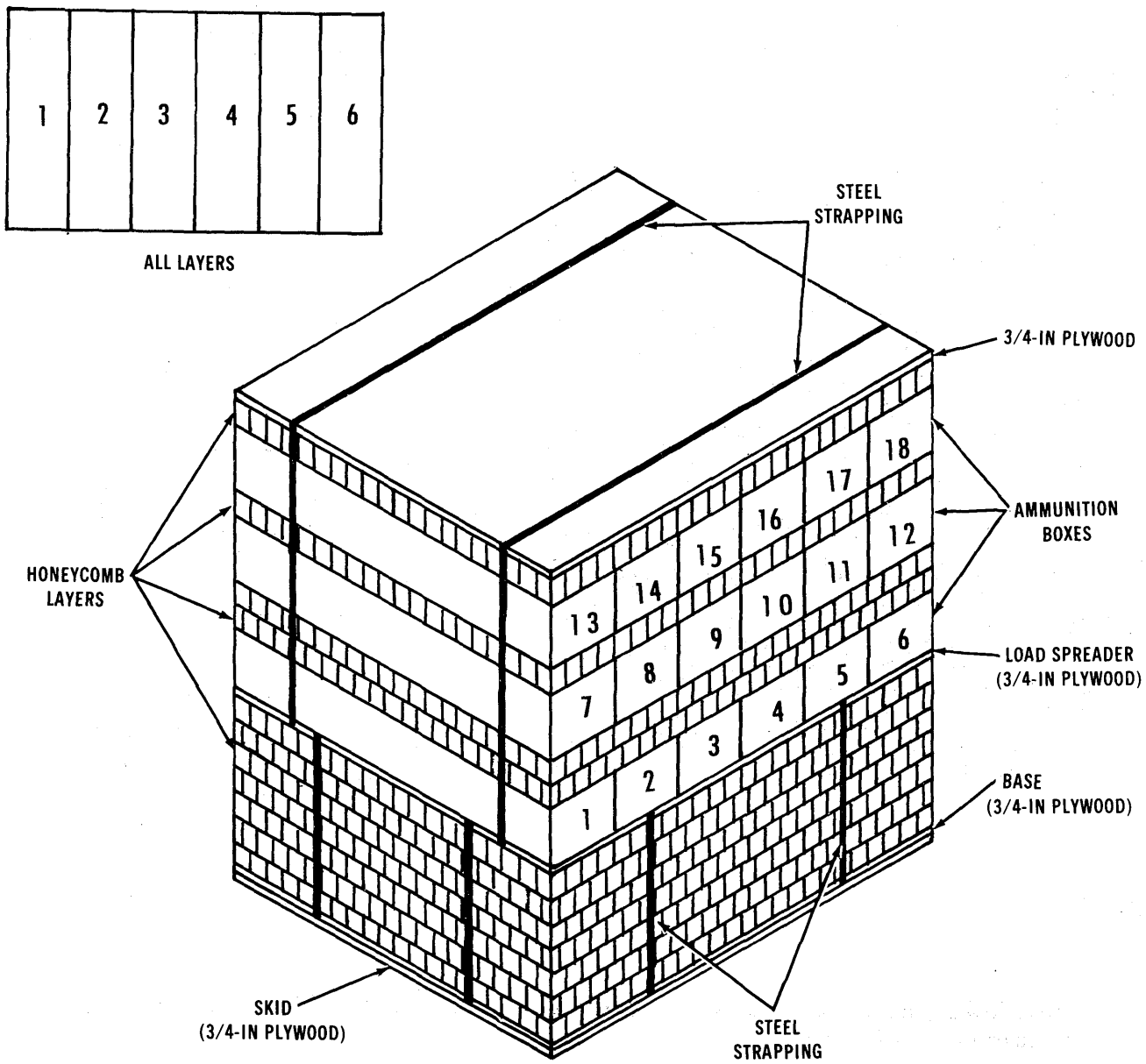


Figure 2-65

The following ammunition item is rigged in an A-22 cargo bag for high-velocity airdrop as shown in figure 2-65.

152-Millimeter Ammunition

Cartridge, 152-mm, TPT, XM411E3 (DODAC 1320-D380)

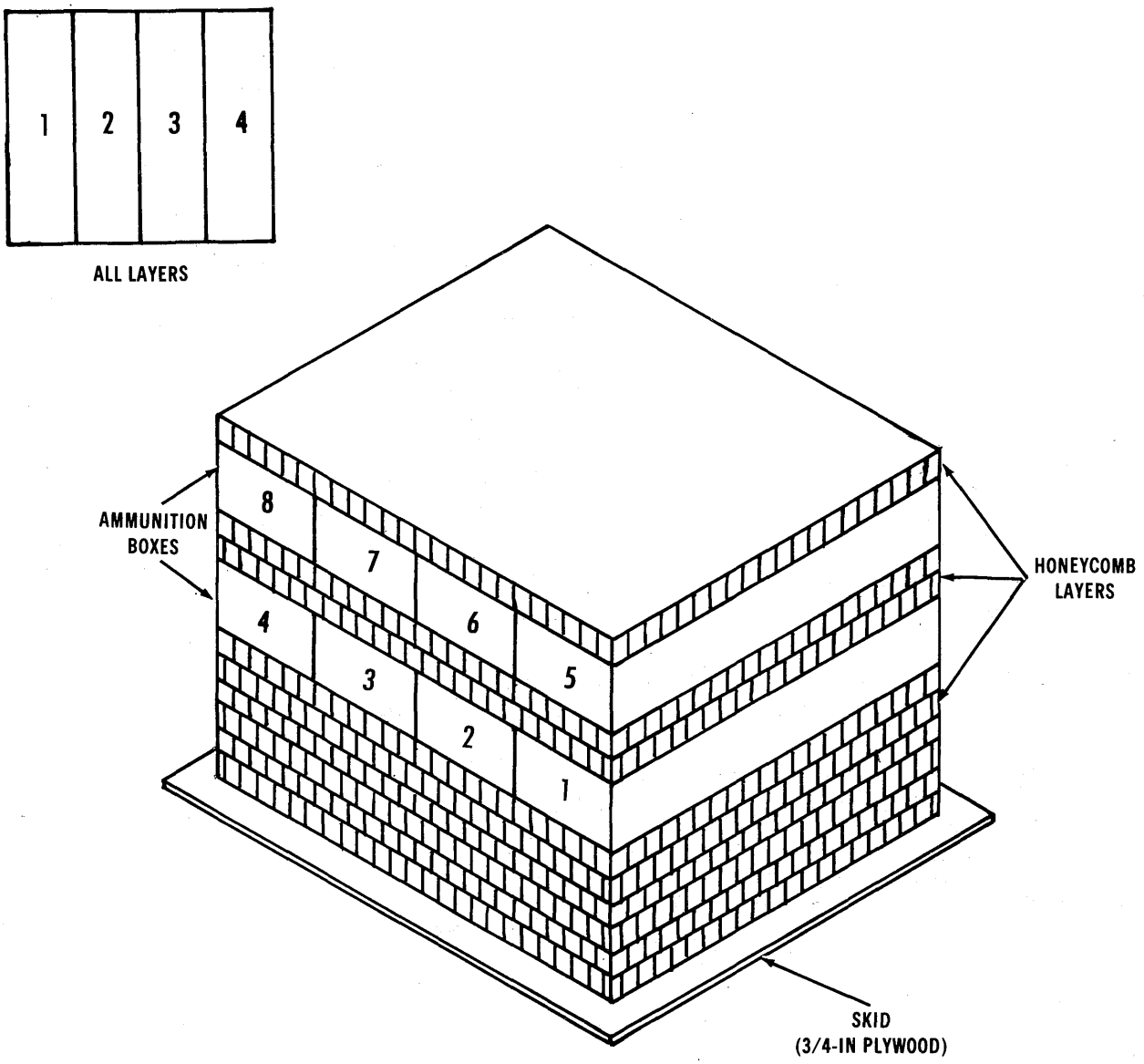


Figure 2-66

The following ammunition items are rigged in an A-22 cargo bag for high-velocity airdrop as shown in figure 2-66.

152-Millimeter Ammunition

Cartridge, 152-mm, HEAT, MP, XM409E6 (DODAC 1320-D381)
Cartridge, 152-mm, Canister, M625A1 (DODAC 1320-D390)

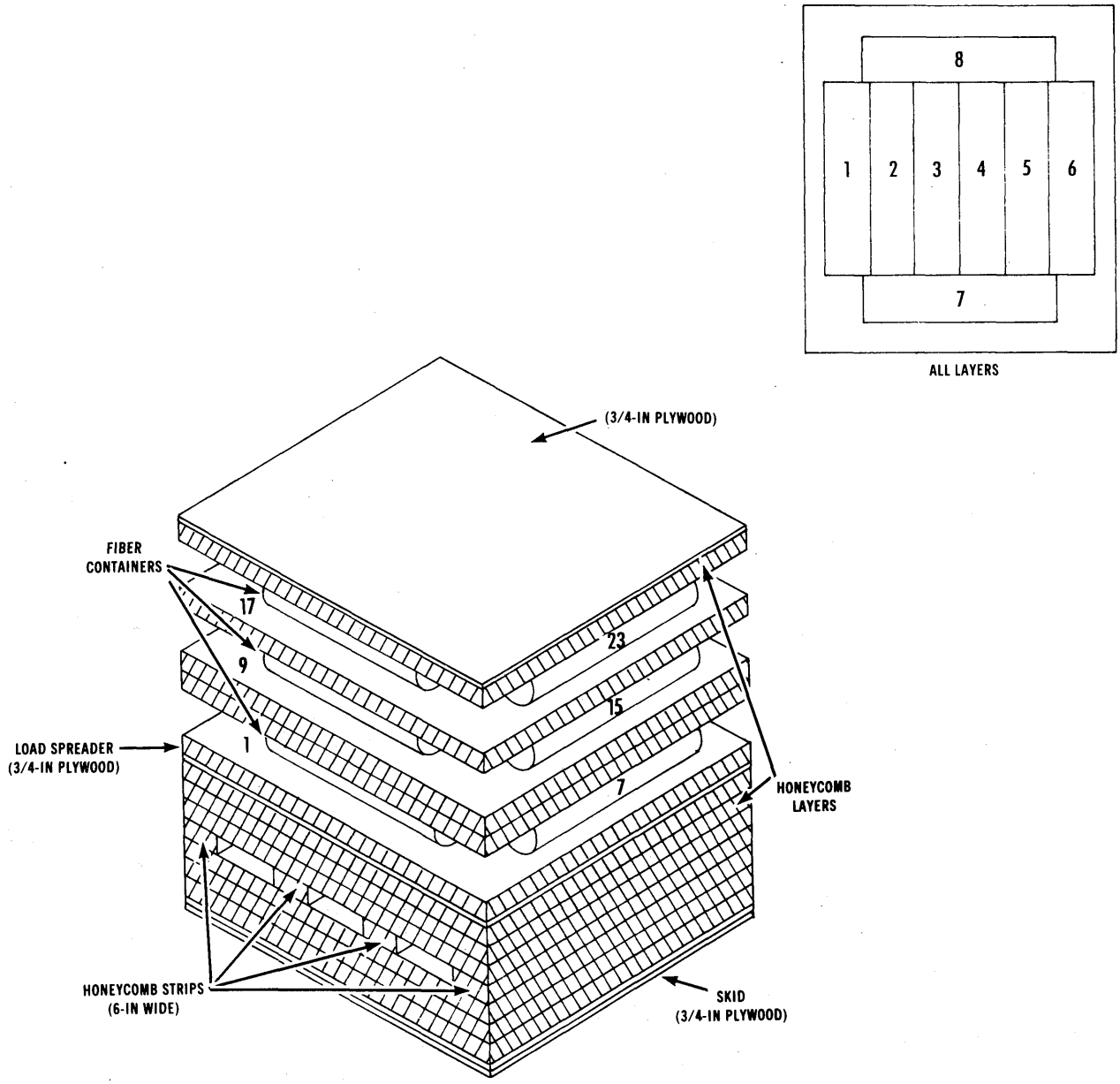
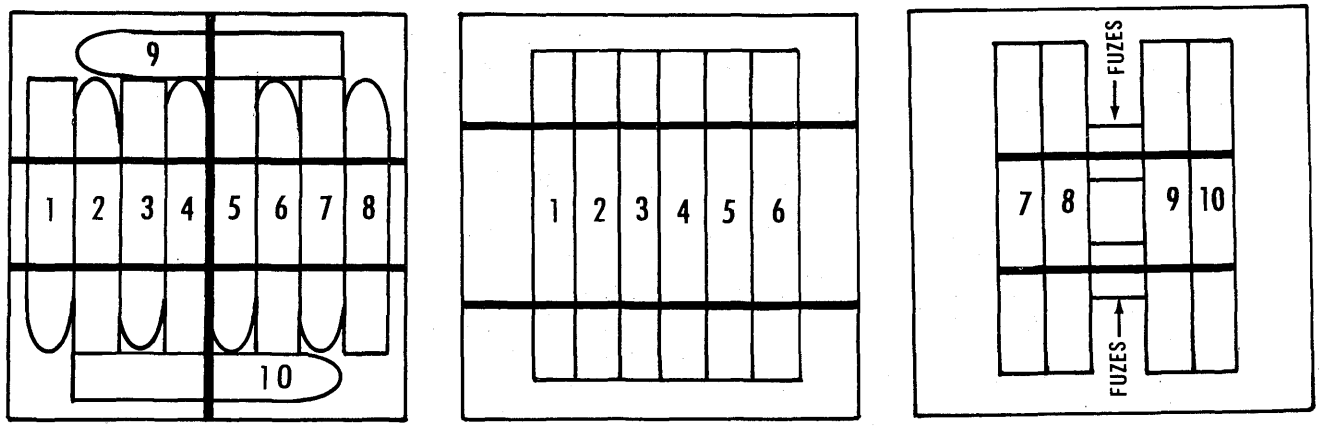


Figure 2-67

The following ammunition items are rigged in an A-22 cargo bag for high-velocity airdrop as shown in figure 2-67.

152-Millimeter Ammunition (Rigging Fiber Containers)

Cartridge, 152-mm, HEAT-MP, XM409E6 (DODAC 1320-D381)
Cartridge, 152-mm, Canister, M625A1 (DODAC 1320-D390)



1st LAYER--PROJECTILES

2d LAYER--CHARGES

3d LAYER--CHARGES AND FUZES

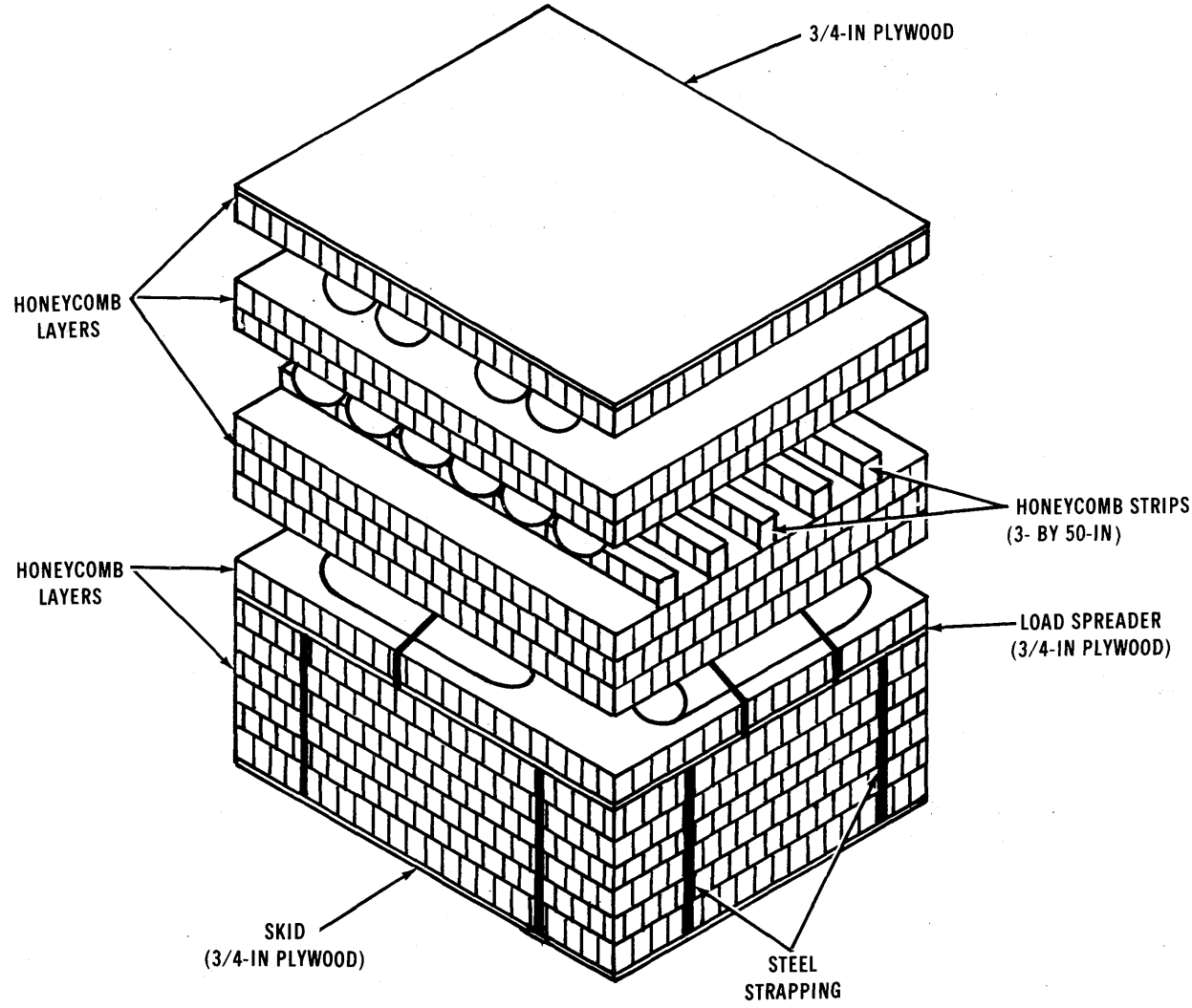


Figure 2-68

The following ammunition items are rigged in an A-22 cargo bag for high-velocity airdrop as shown in figure 2-68.

155-Millimeter Ammunition

Charge, Propelling, 155-mm, M19 (DODAC 1320-D480)
Projectile, 155-mm, Gas, Persistent, HD, M104 (DODAC 1320-D484)
Projectile, 155-mm, HE, M101 (DODAC 1320-D485)
Projectile, 155-mm, Smoke, WP, M104 (DODAC 1320-D487)
Reducer, Flash, Propelling Charge, M1 (DODAC 1320-D490)
Projectile, 155-mm, HE, ADAM, M692 (DODAC 1320-D501)
Projectile, 155-mm, HE, ADAM, M731 (DODAC 1320-D502)
Projectile, 155-mm, Illuminating, M485A2 (DODAC 1320-D505)
Projectile, 155-mm, HC, BE, M116E2 (DODAC 1320-D506)
*Charge, Propelling, 155-mm, M203 (DODAC 1320-D532)
Charge, Propelling, 155-mm, M119A1 and M119A2 (DODAC 1320-D533)
Charge, Propelling, 155-mm, M3 (DODAC 1320-D540)
Charge, Propelling, 155-mm, M4A1 (DODAC 1320-D541)
Projectile, 155-mm, HE, M107 (DODAC 1320-D544)
Projectile, 155-mm, Smoke, HC, BE, M116 (DODAC 1320-D548)
Projectile, 155-mm, Smoke, WP, M110 (DODAC 1320-D550)
Reducer, Flash, Propelling Charge, M2 (DODAC 1320-D552)
Projectile, 155-mm, M449A1 (DODAC 1320-D562)
Projectile, 155-mm, HE, M483A1 (DODAC 1320-D563)
Projectile, 155-mm, HE, RA, M549 (DODAC 1320-D579)

Note: Required fuzes are rigged with the load.

***The old or new type propelling charge container may be rigged.**

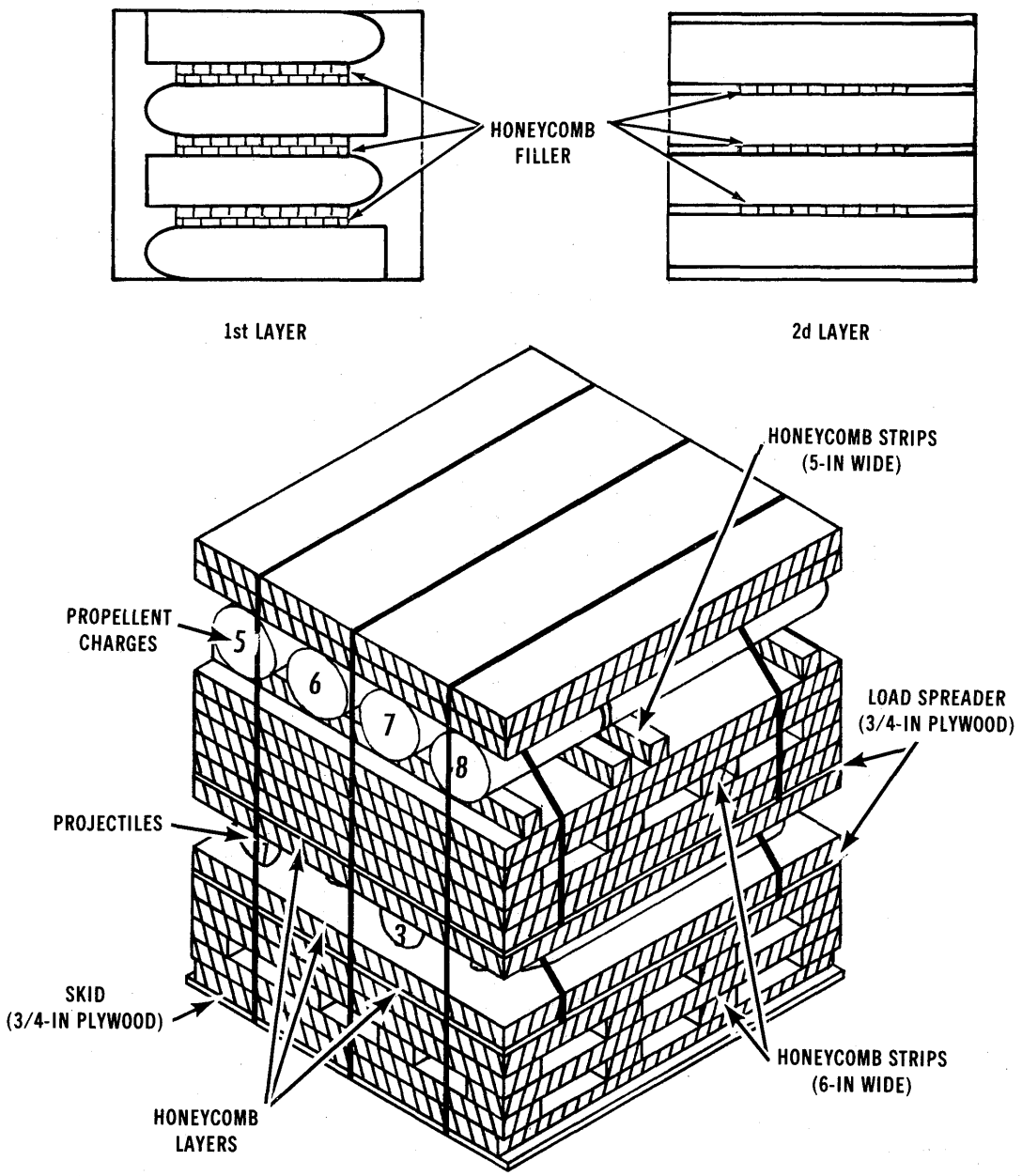


Figure 2-69

The following ammunition items are rigged in an A-22 cargo bag for high-velocity airdrop as shown in figure 2-69.

175-Millimeter Ammunition

Charge, Propelling, 175-mm, WB, M86A2 w/Additive Jacket M1 and Primer Percussion M82 (DODAC 1320-D361)
Projectile, 175-mm, HE, M437A2 (DODAC 1320-D572)

Note. Required fuzes are rigged with the load.

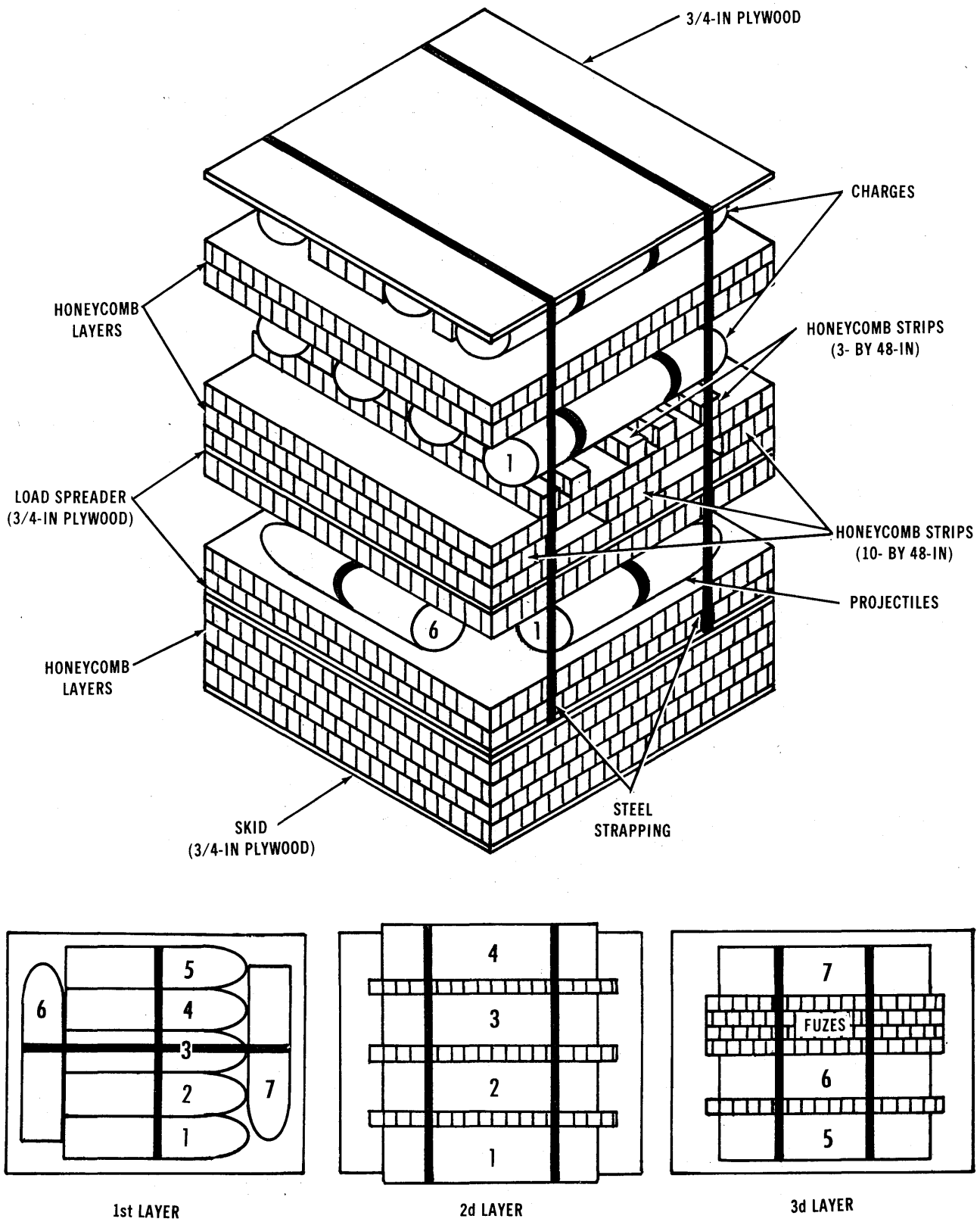

3/4-IN PLYWOOD
CHARGES
HONEYCOMB LAYERS
HONEYCOMB STRIPS (3- BY 48-IN)
LOAD SPREADER (3/4-IN PLYWOOD)
HONEYCOMB STRIPS (10- BY 48-IN)
PROJECTILES
HONEYCOMB LAYERS
STEEL STRAPPING
SKID (3/4-IN PLYWOOD)
1
6
1
5
6
4
3
2
7
1
4
3
2
1
7
FUZES
6
5
1st LAYER
2d LAYER
3d LAYER

Figure 2-70

The following ammunition items are rigged in an A-22 cargo bag for high-velocity airdrop as shown in figure 2-70.

8-Inch Ammunition

*Charge, Propelling, 8-in, WB, M188 (DODAC 1320-D661)
Charge, Propelling, 8-in, M1 (DODAC 1320-D675)
Charge, Propelling, 8-in, M2 (DODAC 1320-D676)
Projectile, 8-in, HE, M106 (DODAC 1320-D680)
Reducer, Flash, Propelling Charge, M3 (DODAC 1320-D681)
Projectile, 8-in, HE, M404 (DODAC 1320-D684)

Note. Required fuzes are rigged with the load.

***The old or new type propelling charge container may be rigged.**

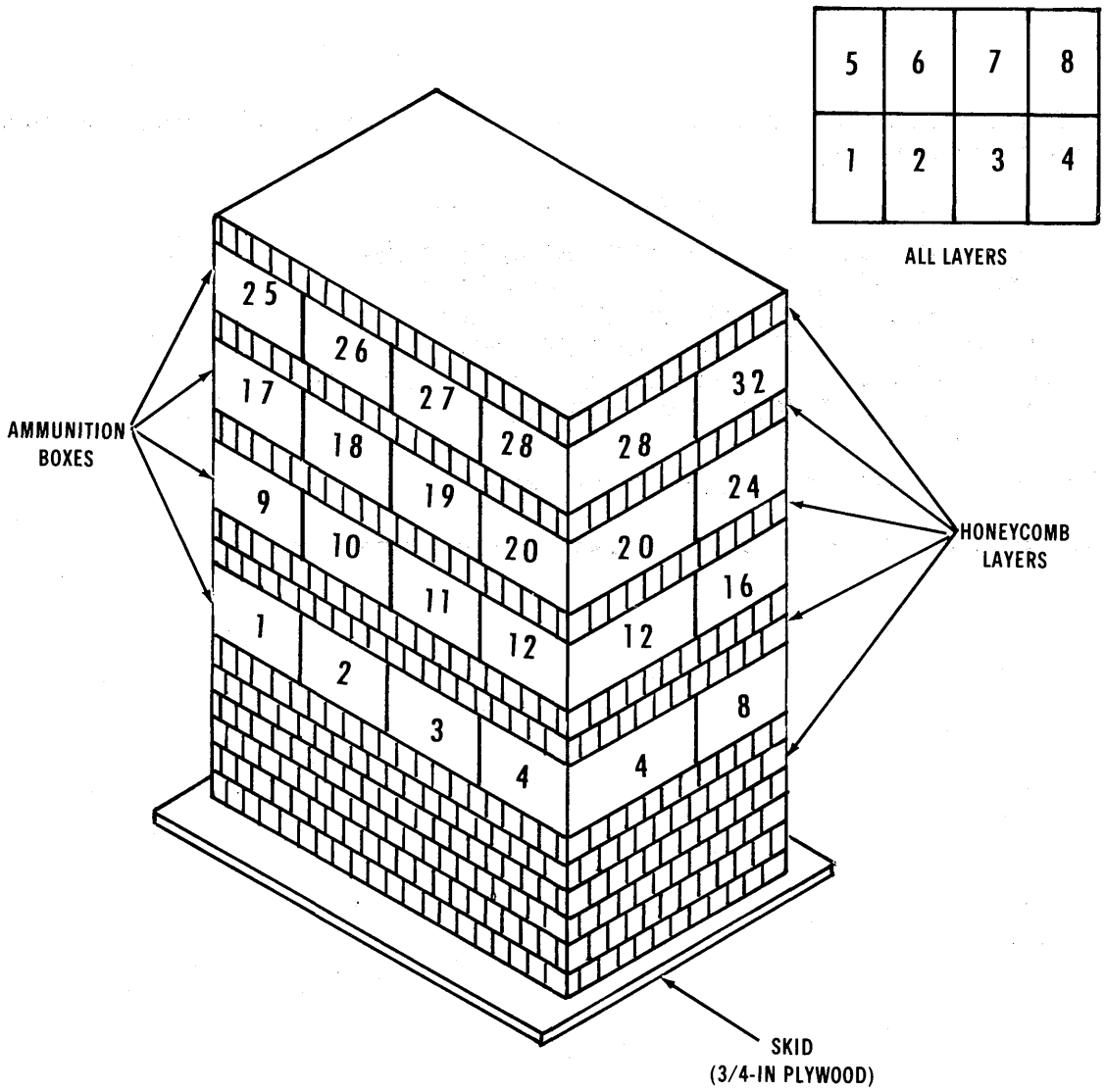


Figure 2-71

The following ammunition items are rigged in an A-22 cargo bag for high-velocity airdrop as shown in figure 2-71.

Grenade

Grenade, Hand Offensive, MK3A2, with Fuze (DODAC 1330-G911)

Demolition Item

Igniter, Time Blasting Fuze, M2 or M60, Weatherproof (DODAC 1375-M766)

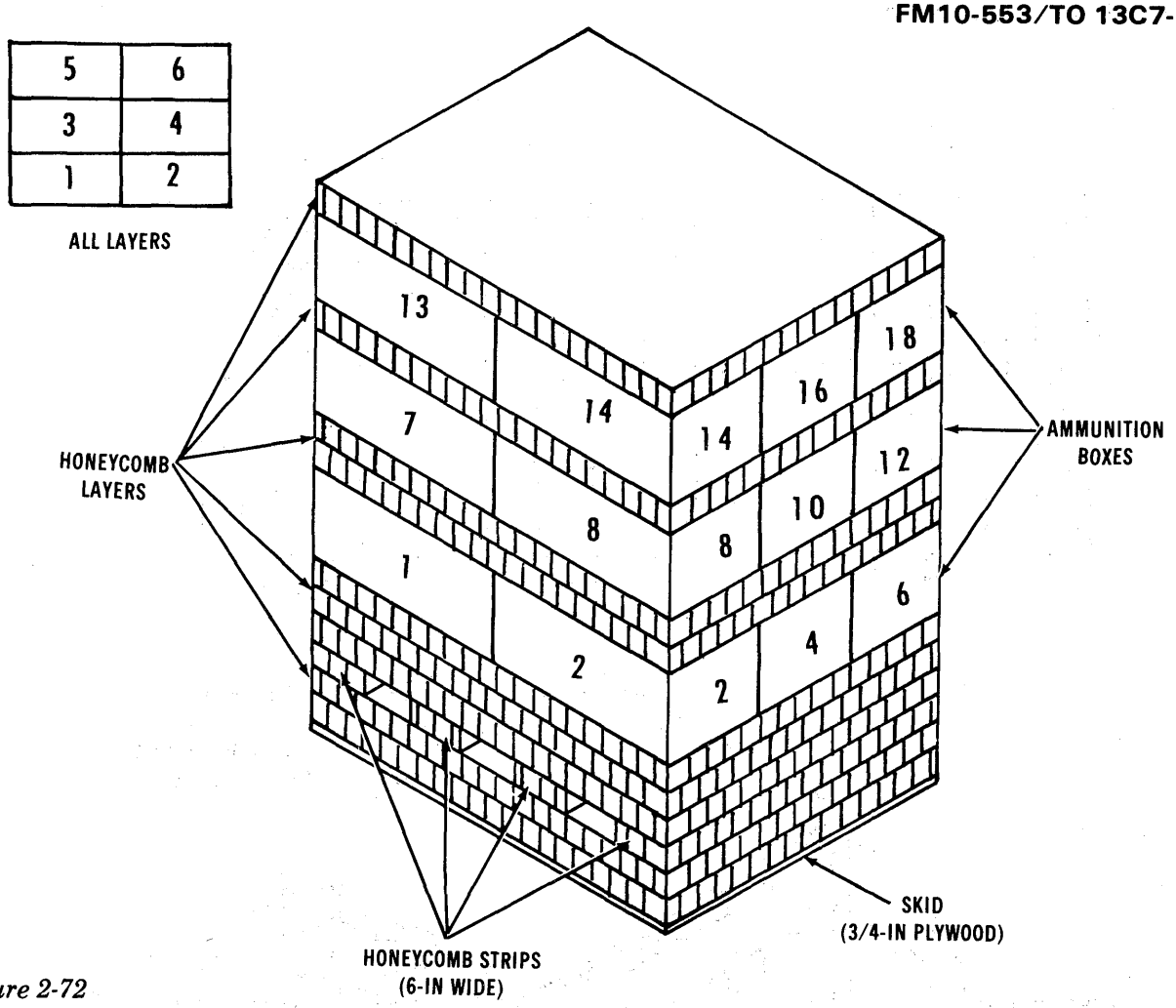


Figure 2-72

The following ammunition items are rigged in an A-22 cargo bag for high-velocity airdrop as shown in figure 2-72.

Grenade

Launcher and Grenade, Smoke, HC, WP, M176 (DODAC 1330-H050)

Mines

M14 Mine will contaminate the drop zone if parachute malfunctions.
Mine, Antipersonnel, MN, M14 (DODAC 1345-K121)
Mine, Antitank, HEAT, Heavy with Fuze M603 (DODAC 1345-K180)

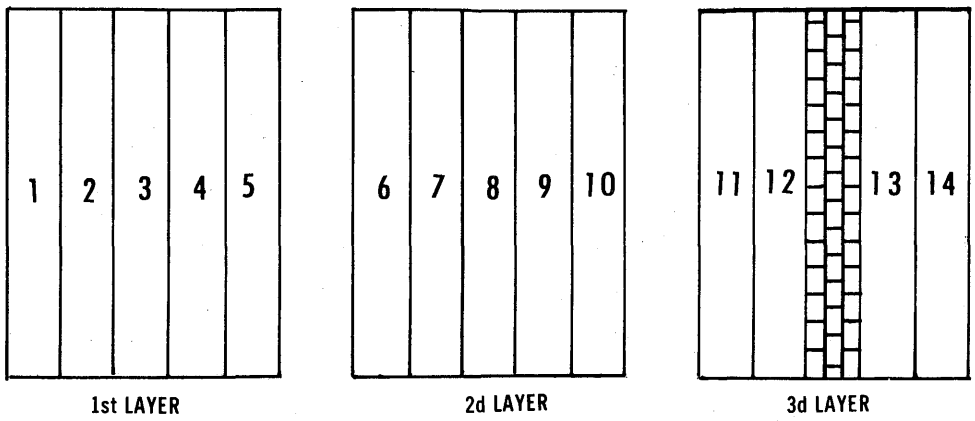
Signal Item

The M49A1 surface trip flare may burn on ground impact if parachute malfunctions. The surface trip flares must be rigged in separate airdrop containers and must not be mixed with other explosive or ammunition items.

Flare, Surface, M49A1, Trip (DODAC 1370-L495)

Demolition Items

Cap, Blasting, Special Non-Electric M7 (DODAC 1375-M131)
Detonator, Percussion, M1A2, 15-sec Delay (DODAC 1375-M450)


1
2
3
4
5
1st LAYER
6
7
8
9
10
2d LAYER
11
12
13
14
3d LAYER

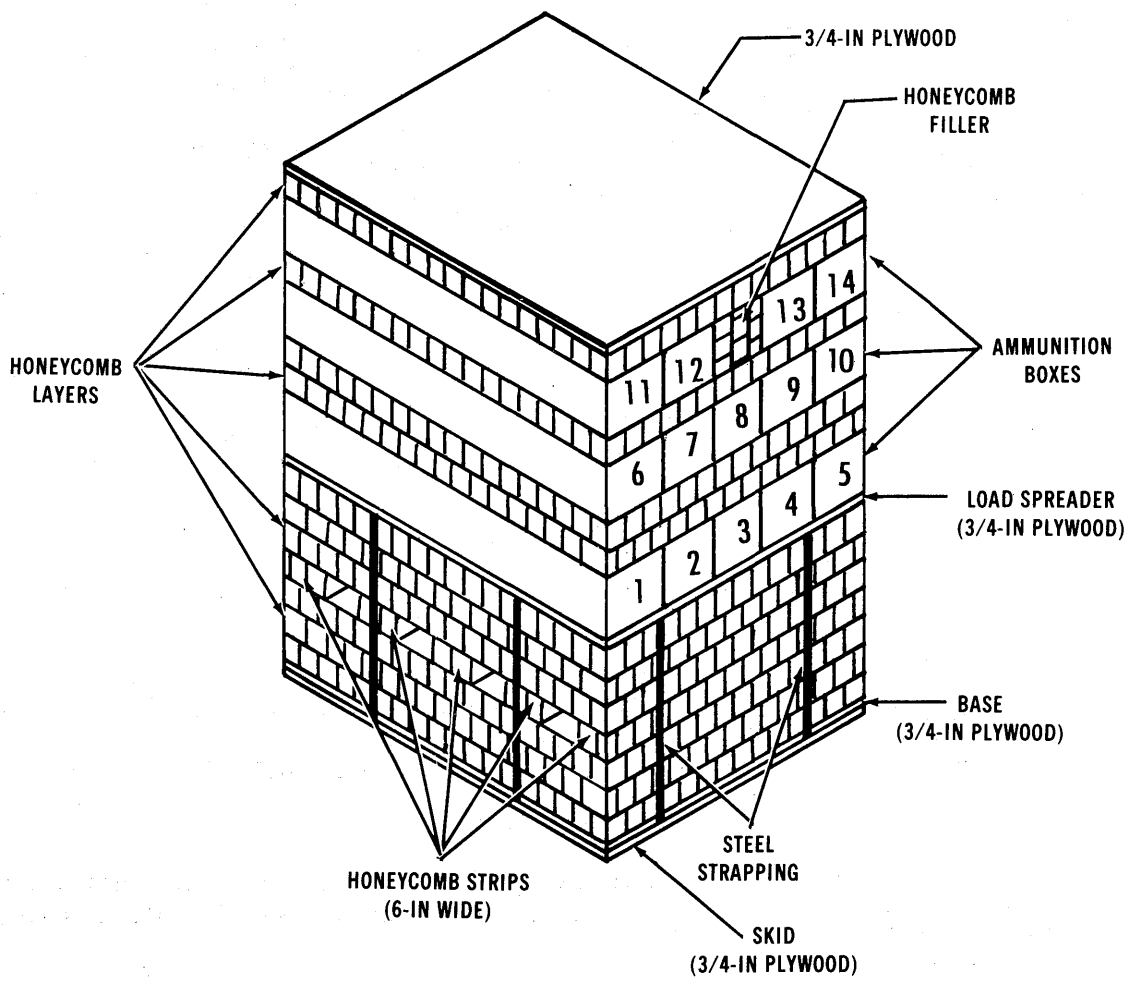

3/4-IN PLYWOOD
HONEYCOMB FILLER
HONEYCOMB LAYERS
AMMUNITION BOXES
LOAD SPREADER (3/4-IN PLYWOOD)
BASE (3/4-IN PLYWOOD)
STEEL STRAPPING
HONEYCOMB STRIPS (6-IN WIDE)
SKID (3/4-IN PLYWOOD)

Figure 2-73

The following ammunition items are rigged in two A-22 cargo bags for high-velocity airdrop as shown in figure 2-73.

Rockets
(4-pack boxes only)

This load cannot be dropped in a double stick. It must be dropped in a single stick or single bundle.

Rocket, 2.75-in, HE, M151, with Fuze M440 (DODAC 1340-H161)
Rocket, 2.75-in, WDU-4A/A (DODAC 1340-H459)
Rocket, 2.75-in, HE, M151, with Fuze M429 (DODAC 1340-H489)
Rocket, 2.75-in, HE, M151, with Fuze M423 (DODAC 1340-H490)
Rocket, 2.75-in, Smoke, WP, M156, with Fuze M423 (DODAC 1340-H519)
Rocket, 2.75-in, HE, XM229, with Fuze M423 (DODAC 1340-H534)
Rocket, 2.75-in, HEDP, XM247, with Fuze XM438 (DODAC 1340-H826)

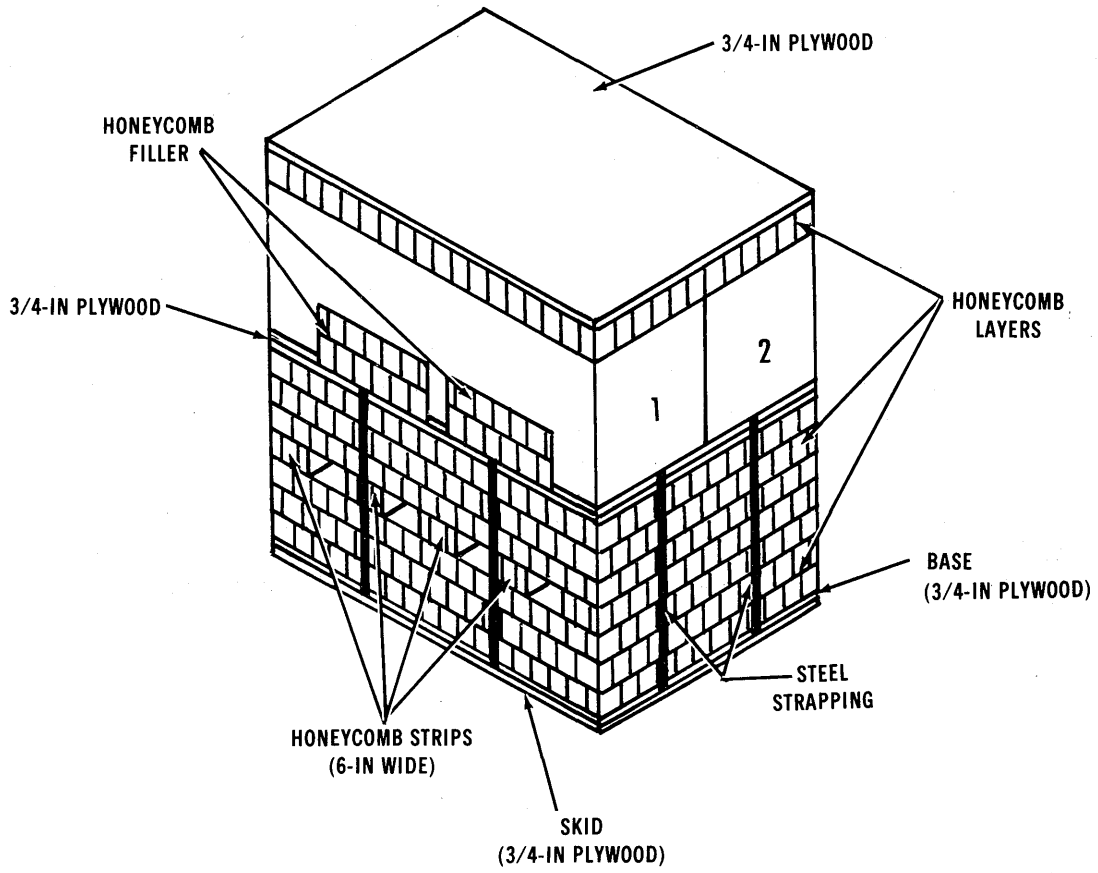


Figure 2-74

The following ammunition items are rigged in two A-22 cargo bags for high-velocity airdrop as shown in figure 2-74.

Rockets
(25-pack boxes only)

This load cannot be dropped in a double stick. It must be dropped in a single stick or single bundle.

Rocket, 2.75-in, W/HD, HE, M151 with Fuze M440 and Motor MK40 Mod 3 (DODAC 1340-H161)
Rocket, 2.75-in, W/WH, WDU-4A/A, and Motor MK40 Mod 3 (DODAC 1340-H459)
Rocket, 2.75-in, WHD, HE, XM229, with Liner with Fuze M429 and Motor MK40 Mod 3 (DODAC 1340-H488)
Rocket, 2.75-in, WHD, HE, M151 with Fuze M429 and Motor MK40 Mod 3 (DODAC 1340-H489)
Rocket, 2.75-in, WHD, HE, M151 with Fuze M423 and Motor MK40 Mod 3 (DODAC 1340-H490)
Rocket, 2.75-in, WHD, HE, XM229 with Fuze M423 and Motor MK40 Mod 3 (DODAC 1340-H534)

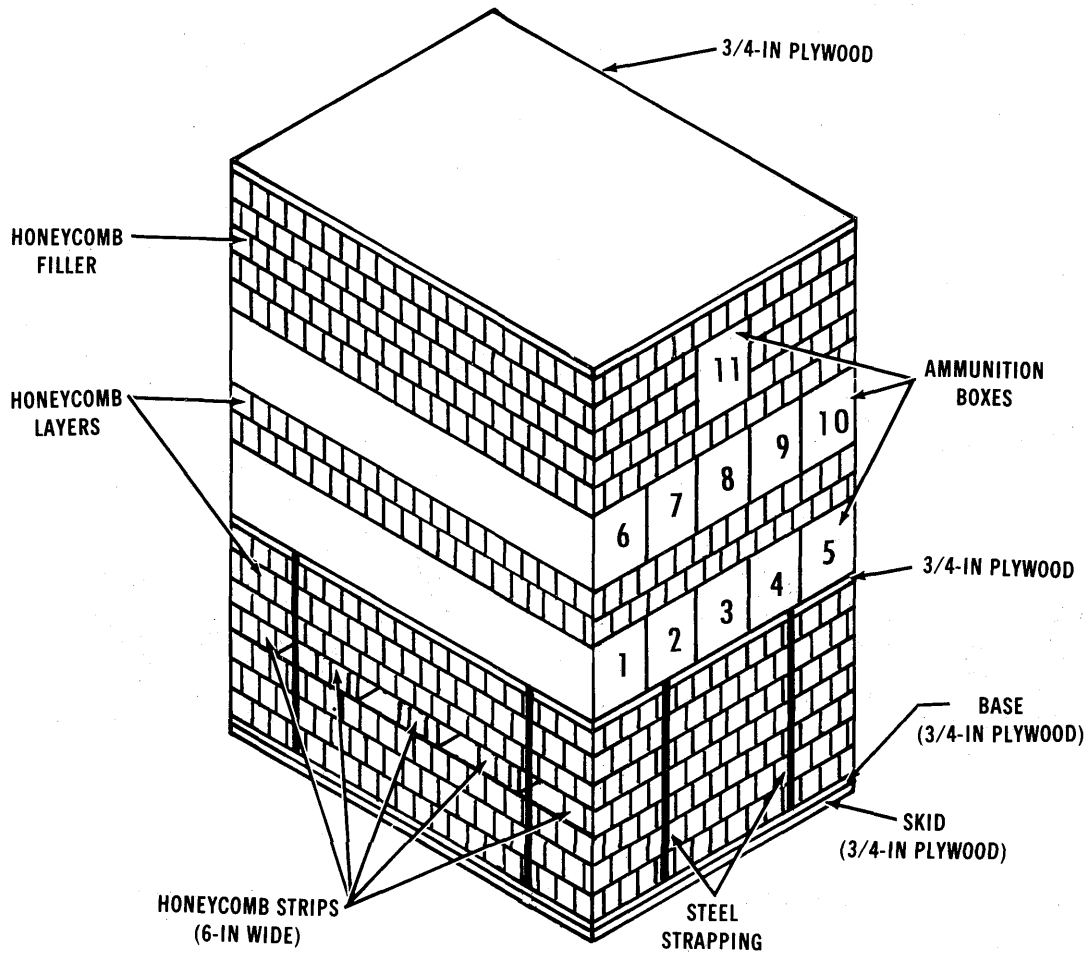


Figure 2-75

The following ammunition item is rigged in two A-22 cargo bags for high-velocity airdrop as shown in figure 2-75.

Rocket
(4-pack boxes only)

This load cannot be dropped in a double stick. It must be dropped in a single stick or single bundle.

Rocket, 2.75-in, HE, XM229 with Fuze M429 (DODAC 1340-H488)

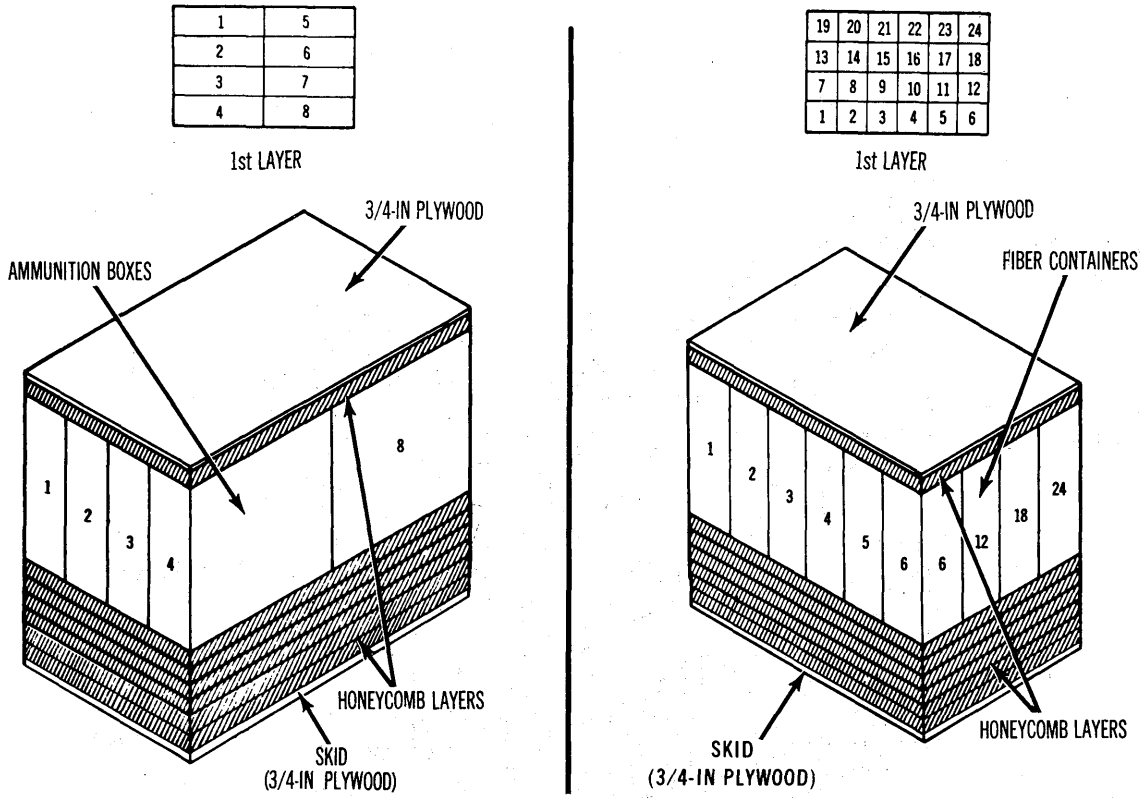


Figure 2-76

A. Rigged with wooden overpack.

B. Rigged without wooden overpack.

The following ammunition item is rigged in an A-22 cargo bag for high-velocity airdrop as shown in A or B of figure 2-76.

66-Millimeter Ammunition

These loads cannot be dropped in a double stick. They must be dropped in a single stick or single bundle.

These items must be rigged in the "base down" position. If parachute malfunctions, detonation may occur on ground impact. All damaged rounds and containers must be considered dangerous and must be destroyed in place.

Rocket, 66-mm, HEAT, M72A2 with Launcher (DODAC 1340-H557)

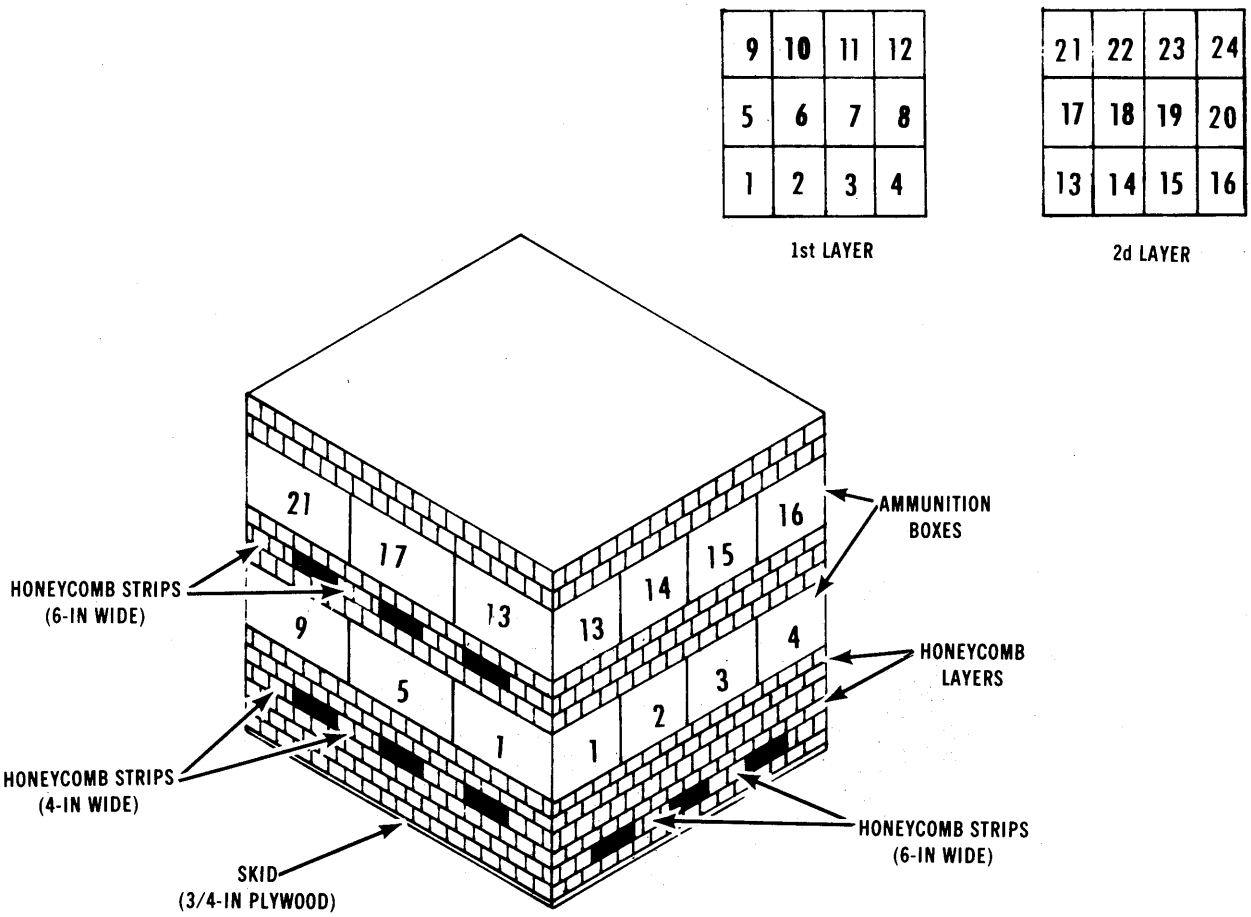


Figure 2-77

The following ammunition item is rigged in an A-22 cargo bag for high-velocity airdrop as shown in figure 2-77.

Mine

Mine, Antipersonnel, M18A1, with Accessories (DODAC 1345-K143)

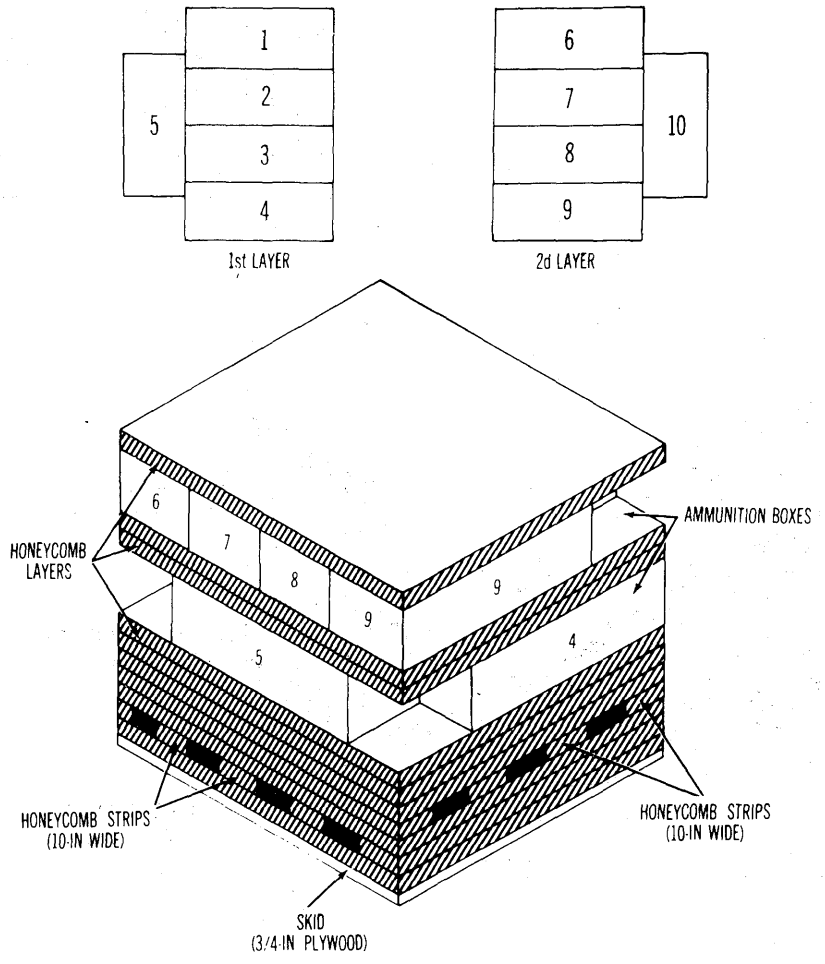


Figure 2-78

The following ammunition is rigged in an A-22 cargo bag for high-velocity airdrop as shown in figure 2-78.

Mine

Mine, AT, HE, M21 Heavy with Fuze Combination M607 (DODAC 1345-K181)

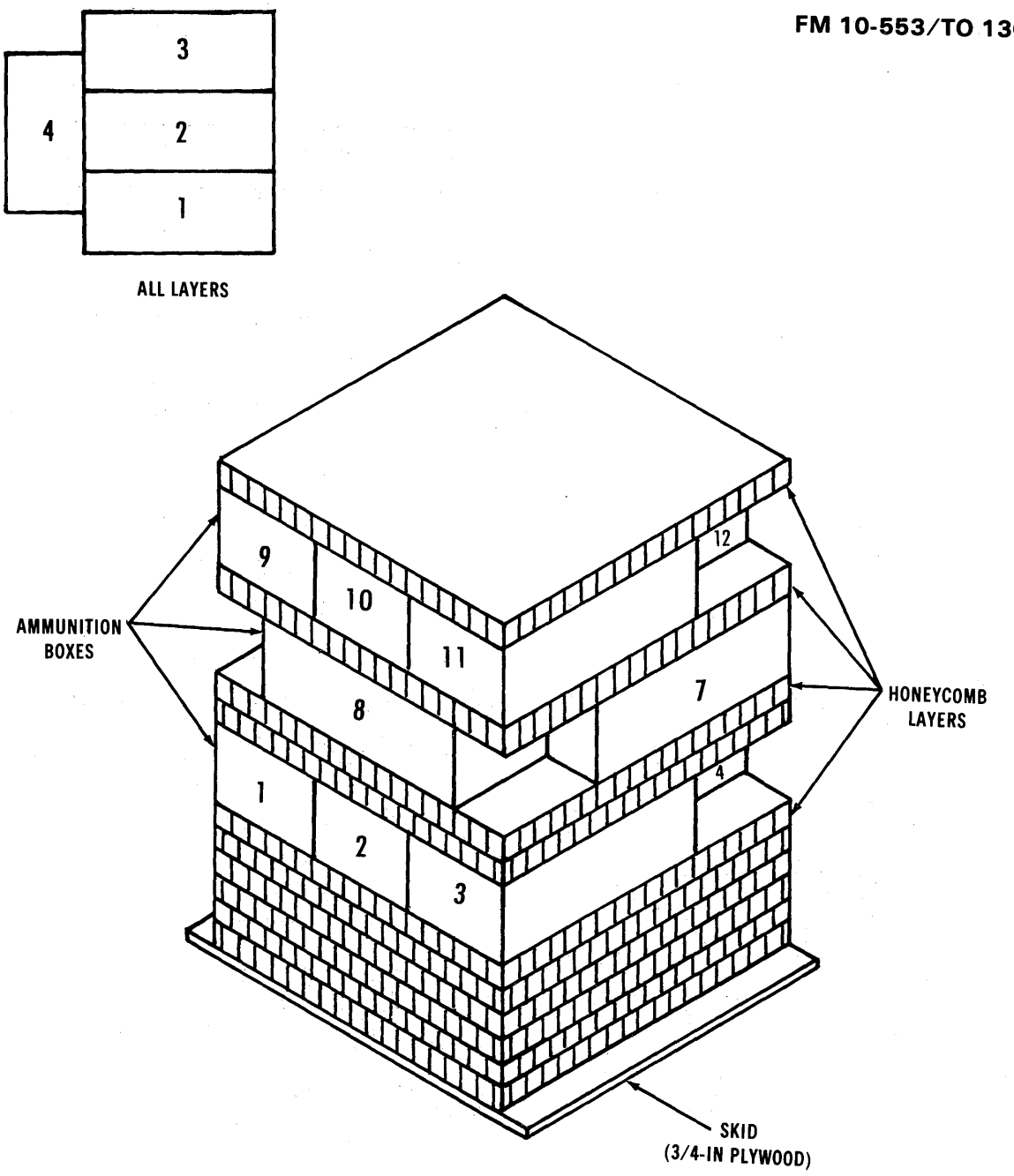


Figure 2-79

The following ammunition item is rigged in an A-22 cargo bag for high-velocity airdrop as shown in figure 2-79.

Mine

M19 Mine may detonate on ground impact if parchute malfunctions. All damaged mines and containers must be considered dangerous and must be destroyed in place.

Mine, AT-HE, M19 (DODAC 1345-K250)

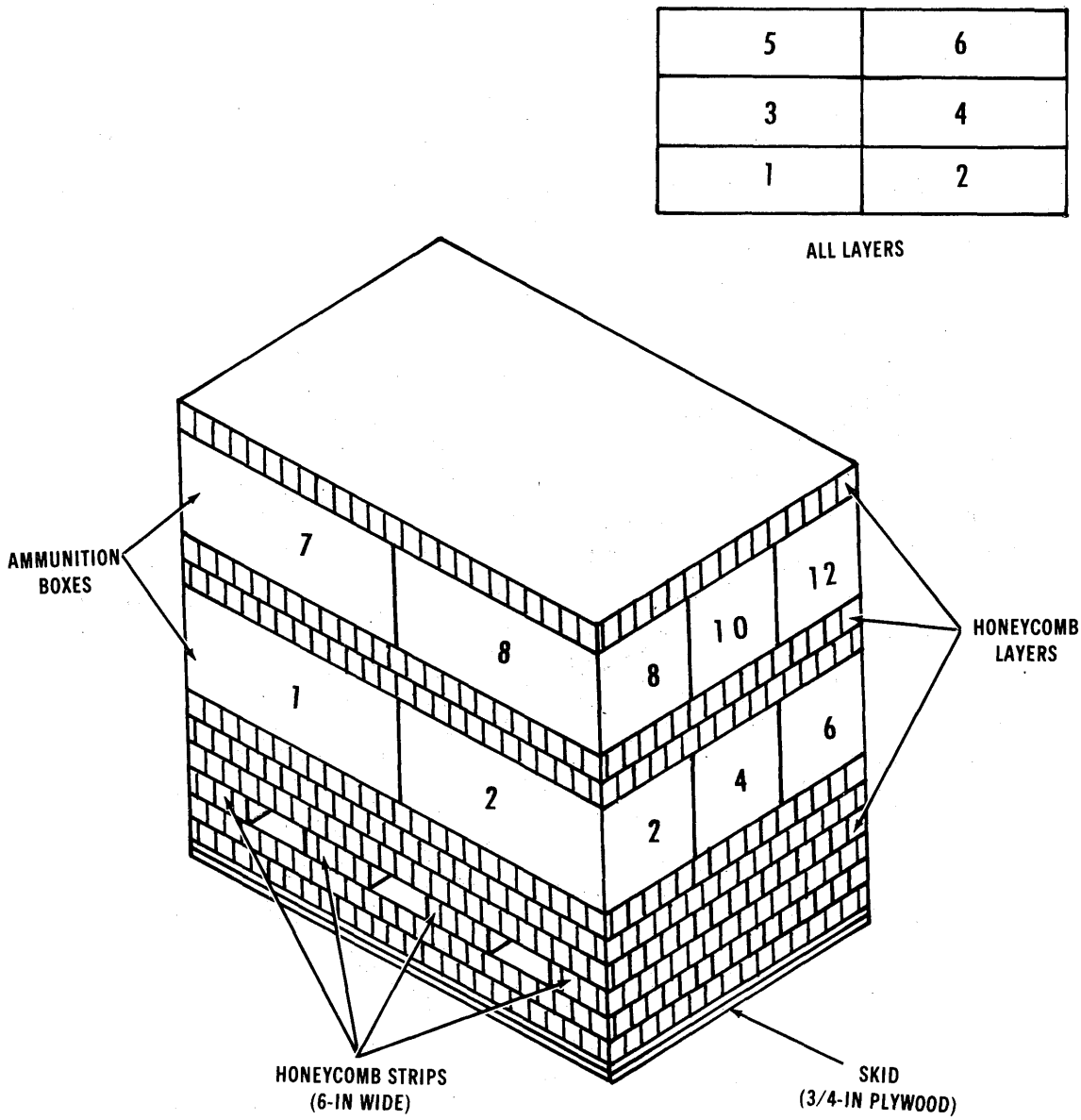


Figure 2-80

The following ammunition items are rigged in an A-22 cargo bag for high-velocity airdrop as shown in figure 2-80.

Incendiary Item

Thickner, Incendiary Oil, M4 (DODAC 1365-K917)

Demolition Item

Charge, Demolition Block, 1/4-lb TNT (DODAC 1375-M030)

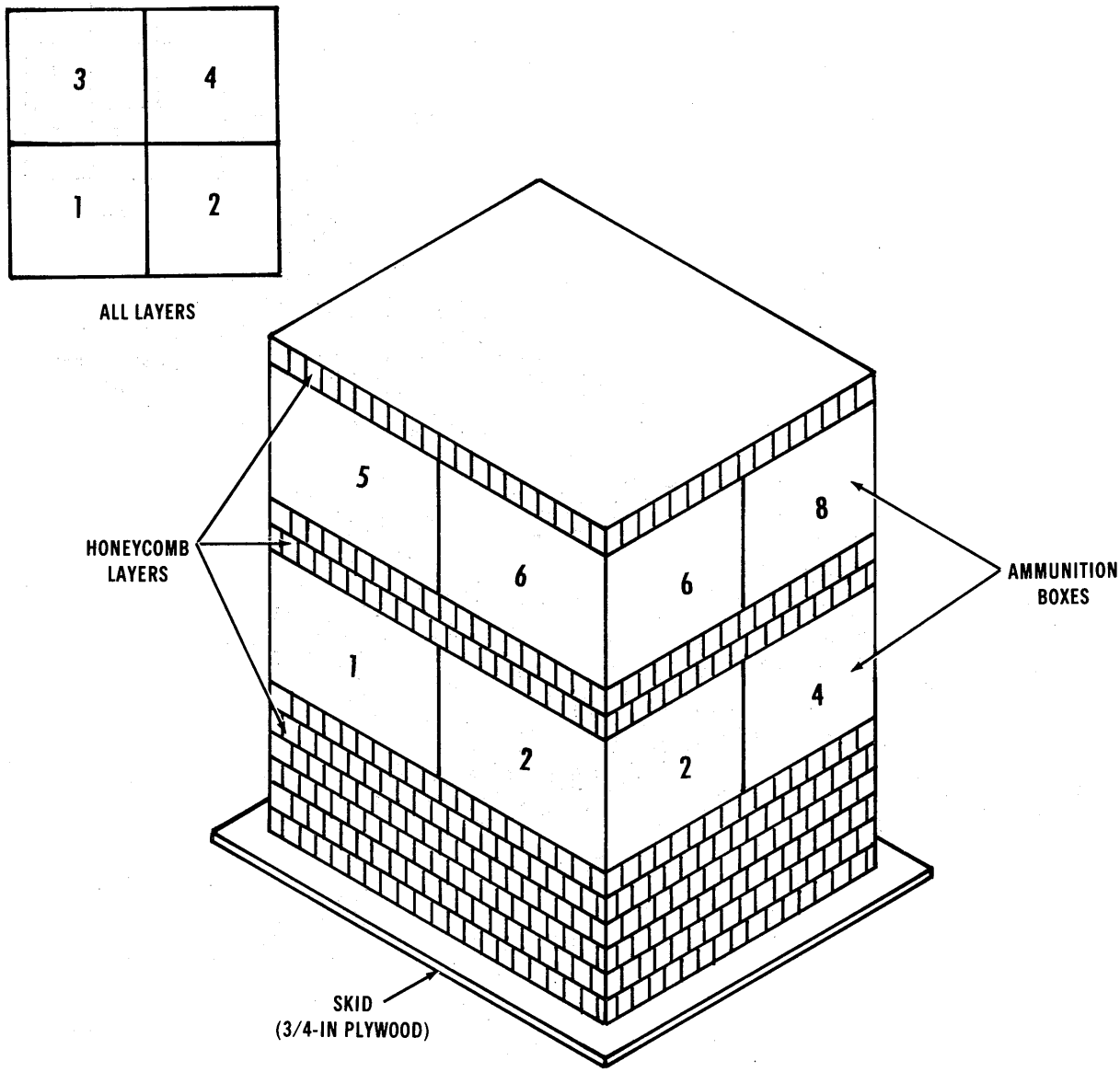


Figure 2-81

The following ammunition items are rigged in an A-22 cargo bag for high-velocity airdrop as shown in figure 2-81.

Signal Items

Signals, personnel distress, XM185 and XM186 will detonate on ground impact if parachute malfunctions.

Signal Kit, Personnel Distress, XM185 (DODAC 1370-L116)
Signal Kit, Personnel Distress, XM186 (DODAC 1370-L117)

Demolition Items

Charge, Demolition, Roll Type, XM186 (DODAC 1375-M060)
Cap, Blasting, Electric, M6 (DODAC 1375-M130)

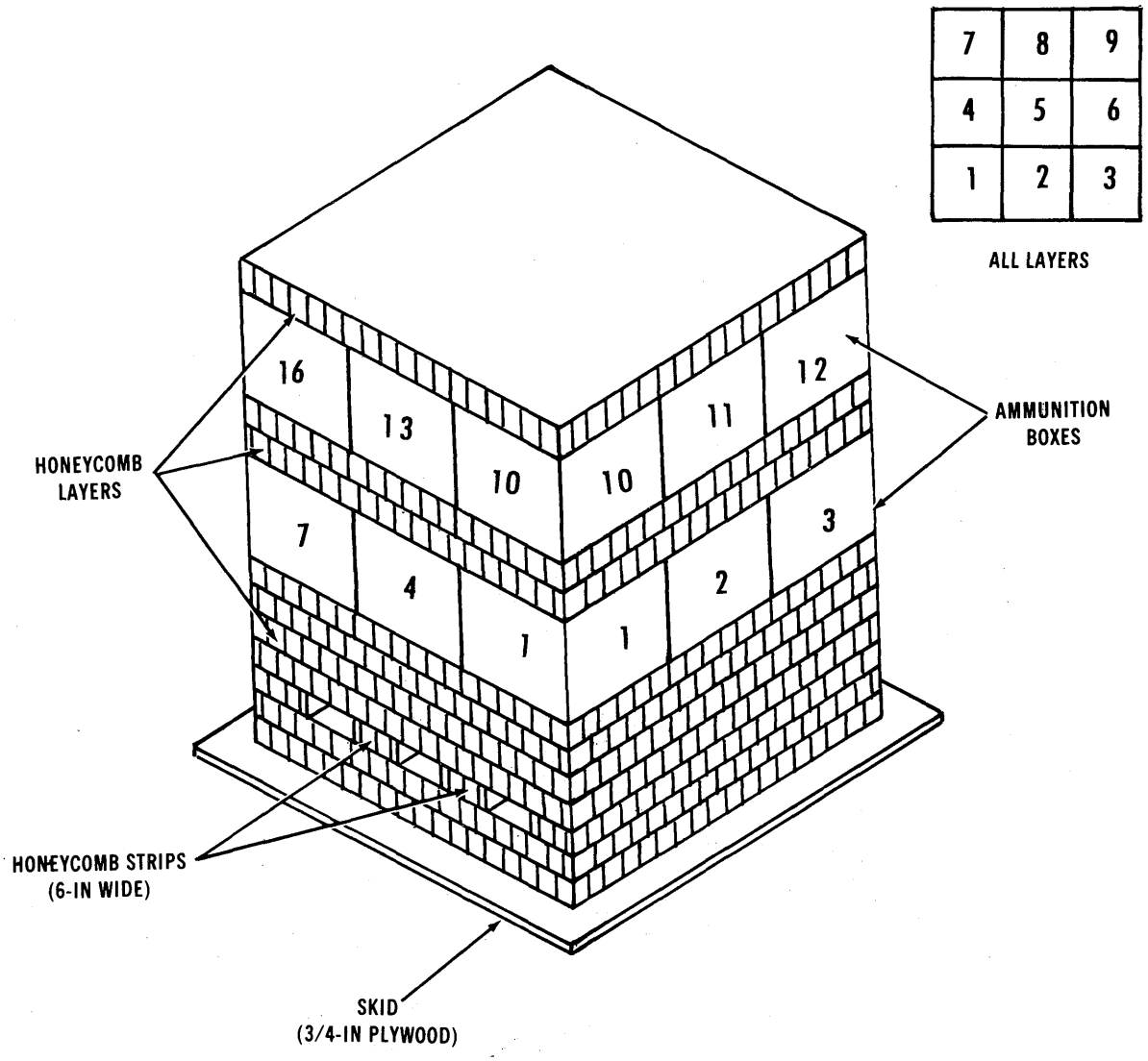


Figure 2-82

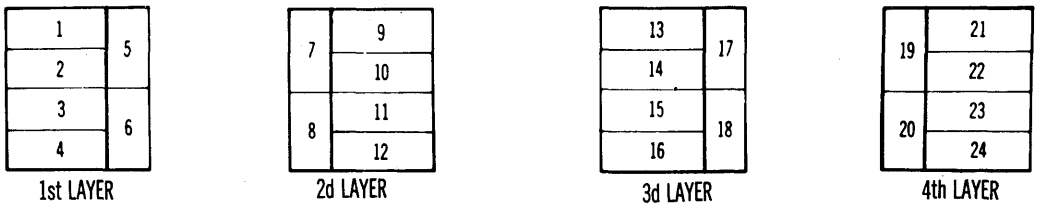
The following ammunition items are rigged in an A-22 cargo bag for high-velocity airdrop as shown in figure 2-82.

Signal Items

Signal, Illuminating, Ground, M195 Green Star (DODAC 1370-L305)
Signal, Illuminating, Ground, M158 Red Star (DODAC 1370-L036)
Signal, Illuminating, Ground, M159 White Star (DODAC 1370-L307)
Signal, Illuminating, Ground, Parachute, M126A1 (DODAC 1370-L311)
Signal, Illuminating, Parachute, M127A1, White Star (DODAC 1370-L312)
Signal, Illuminating, Ground, Cluster, M125A1 (DODAC 1370-L314)
Signal, Smoke, Parachute, M129A1, Red (DODAC 1370-L323)
Signal, Smoke, Parachute, M128A1, Green (DODAC 1370-L324)

Demolition Item

Destructor, Explosive Universal, M10 (DODAC 1375-M241)



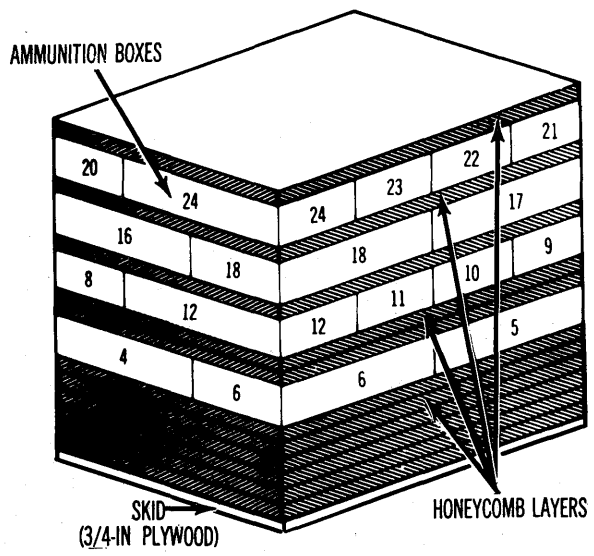


Figure 2-83

The following ammunition items are rigged in an A-22 cargo bag for high-velocity airdrop as shown in figure 2-83.

Demolition Items

Charge, Demolition, Block, PETN, M118 (DODAC 1375-M024)
Firing Device, Demolition, M1 Release Type (DODAC 1375-M631)

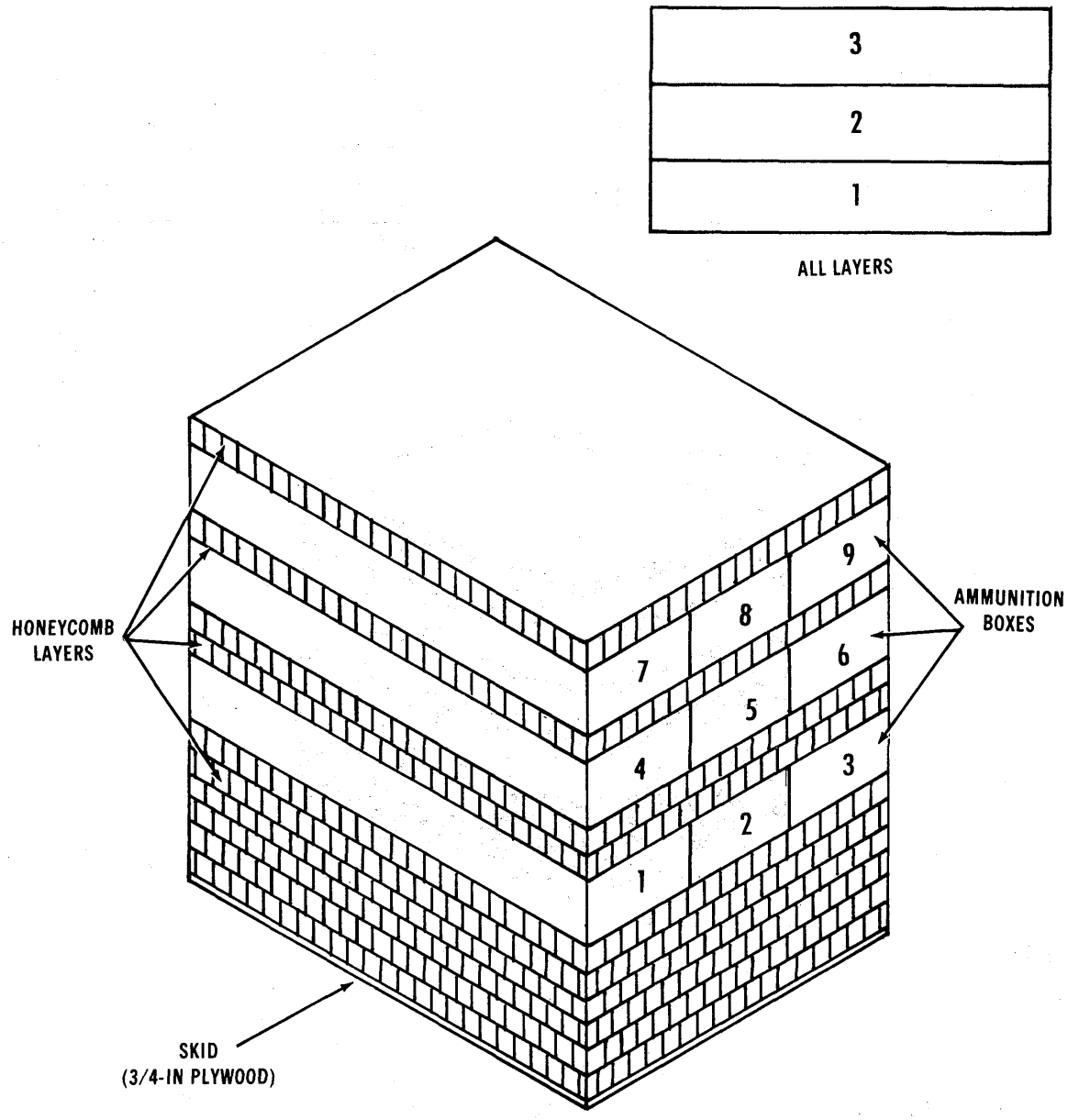


Figure 2-84

The following ammunition items are rigged in an A-22 cargo bag for high-velocity airdrop as shown in figure 2-84.

Demolition Items

This load cannot be dropped in a double stick. It must be dropped in a single stick or single bundle.

Demolition Kit, Bangalore Torpedo M1A1 (DODAC 1375-M026)
Demolition Kit, Bangalore Torpedo, M1A2 (DODAC 1375-M028)

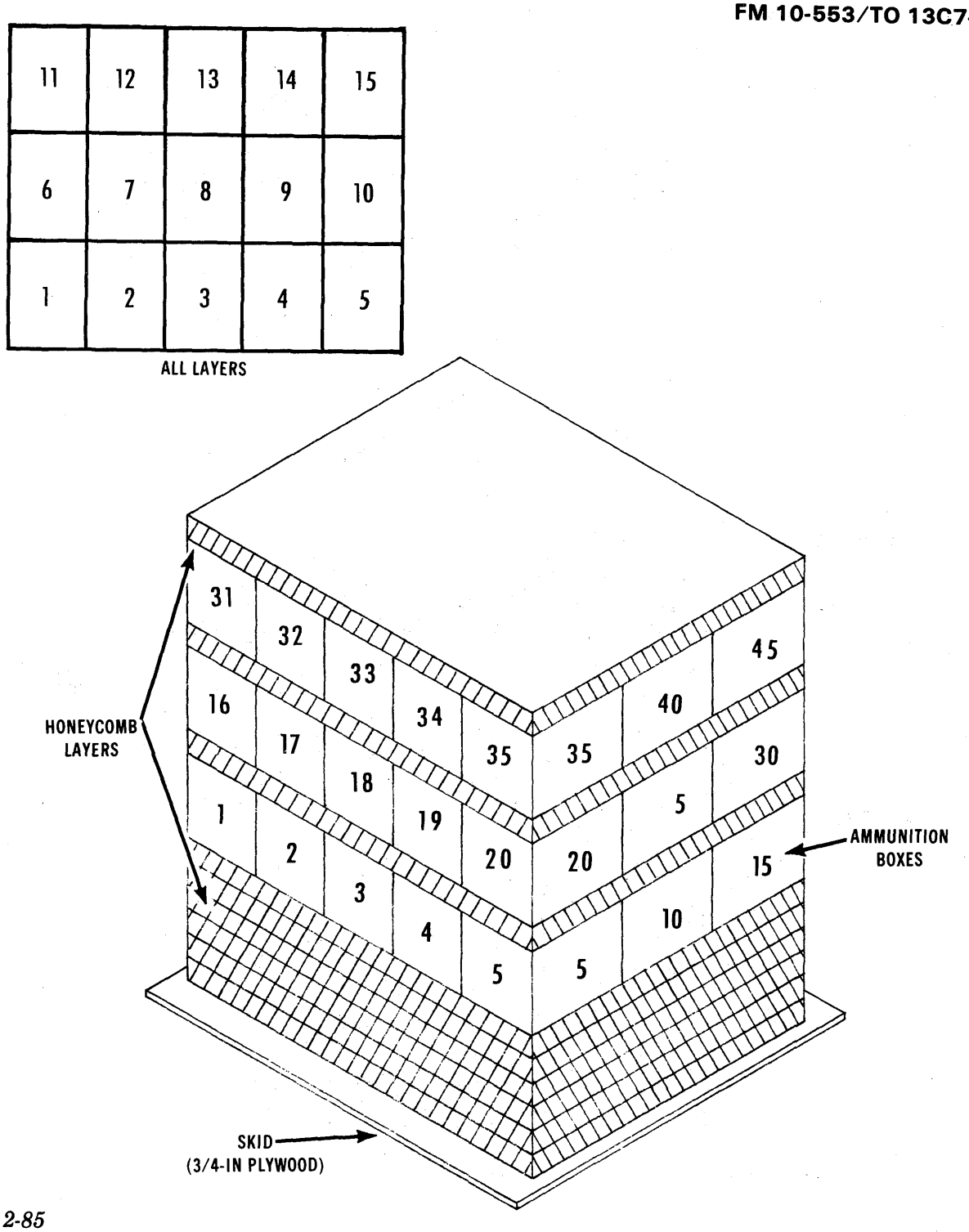


Figure 2-85

The following ammunition item is rigged in an A-22 cargo bag for high-velocity airdrop as shown in figure 2-85.

Demolition Item

Charge, Demolition Block, M3 (DODAC 1375-M037)

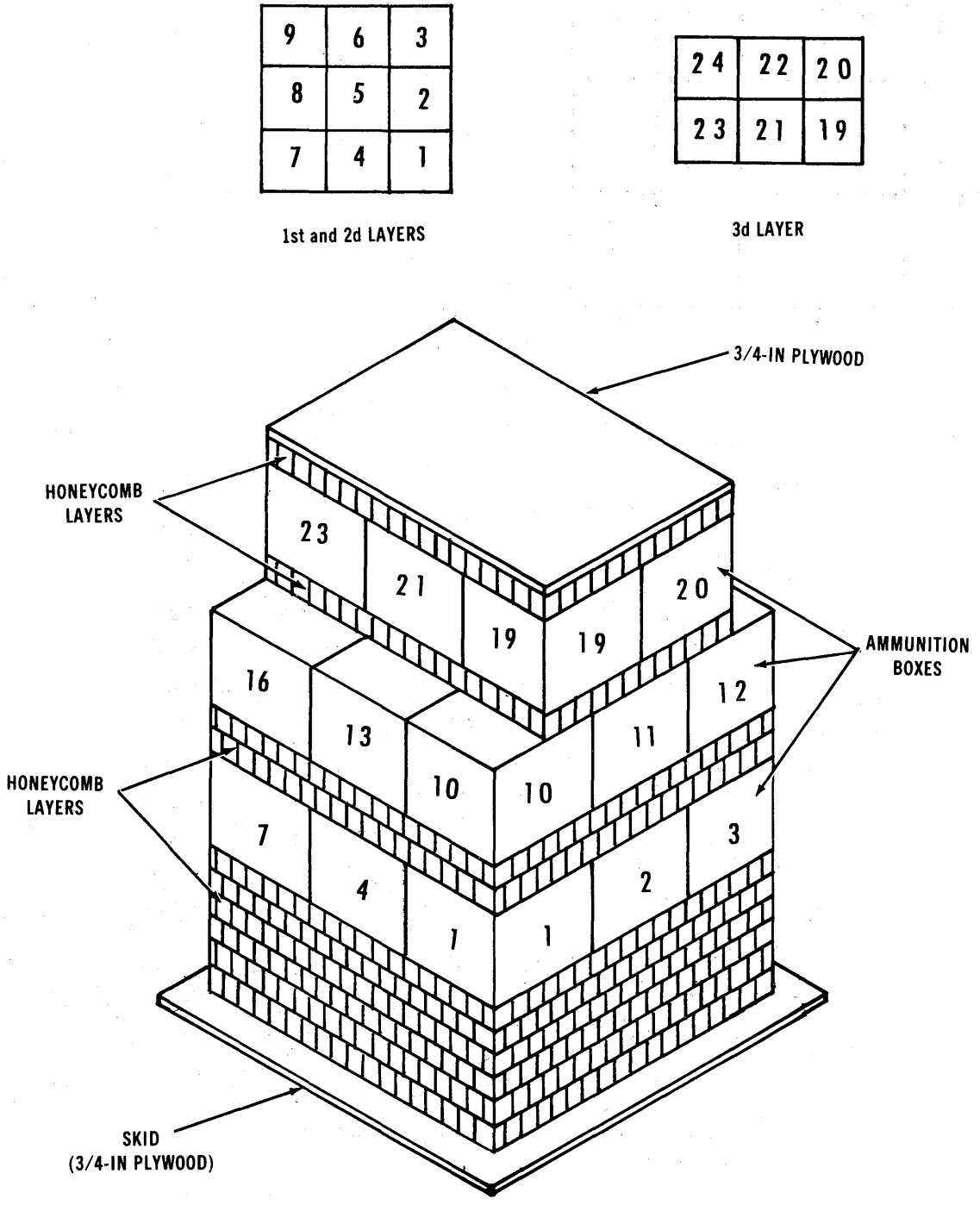


Figure 2-86

The following ammunition item is rigged in an A-22 cargo bag for high-velocity airdrop as shown in figure 2-86.

Demolition Item

Charge, Demolition, Block, M541 (DODAC 1375-M038)

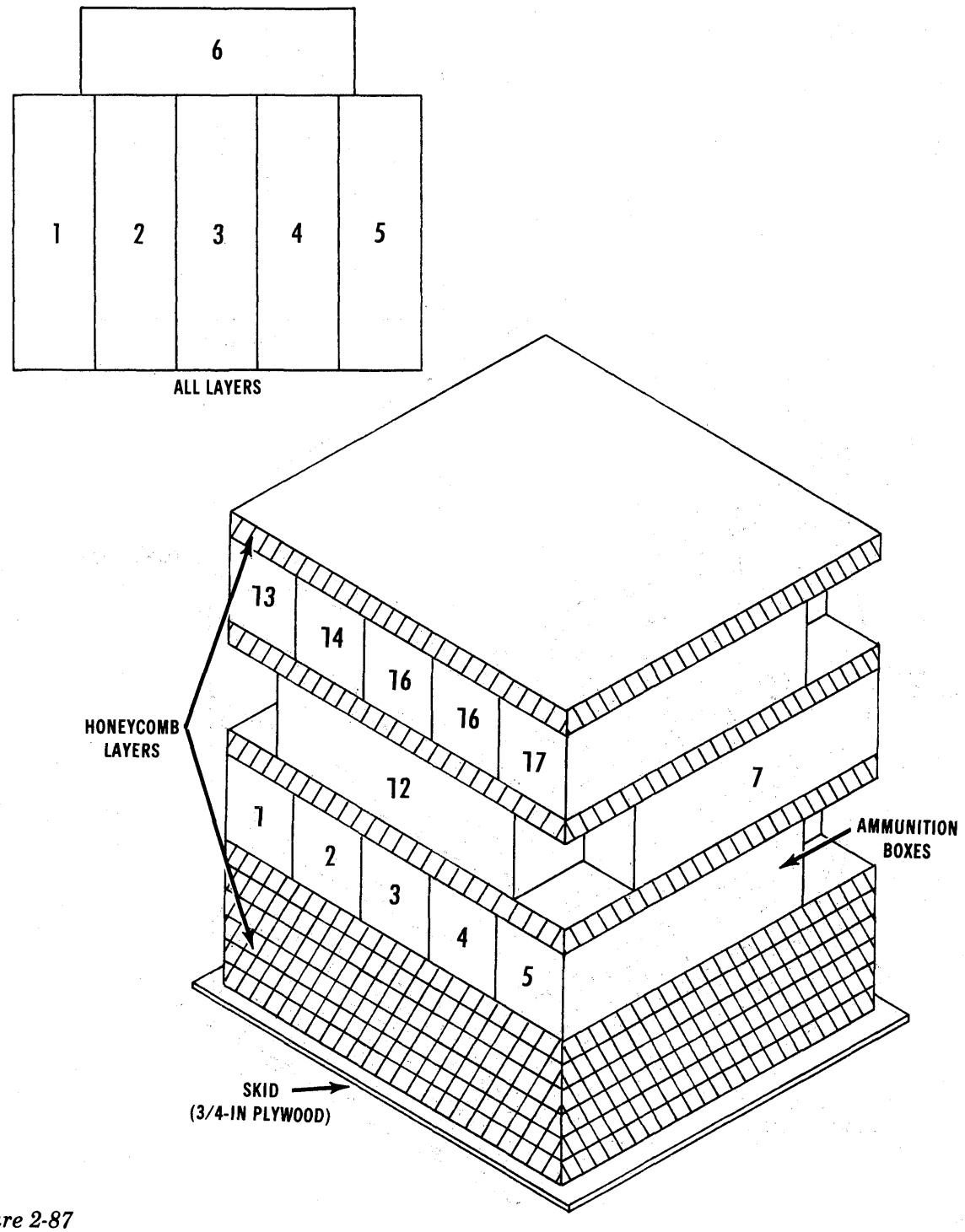


Figure 2-87

The following ammunition item is rigged in an A-22 cargo bag for high-velocity airdrop as shown in figure 2-87.

Demolition Item

Charge, demolition, shaped, HJE, 15-pound, M2A3 (DODAC 1375-M420)

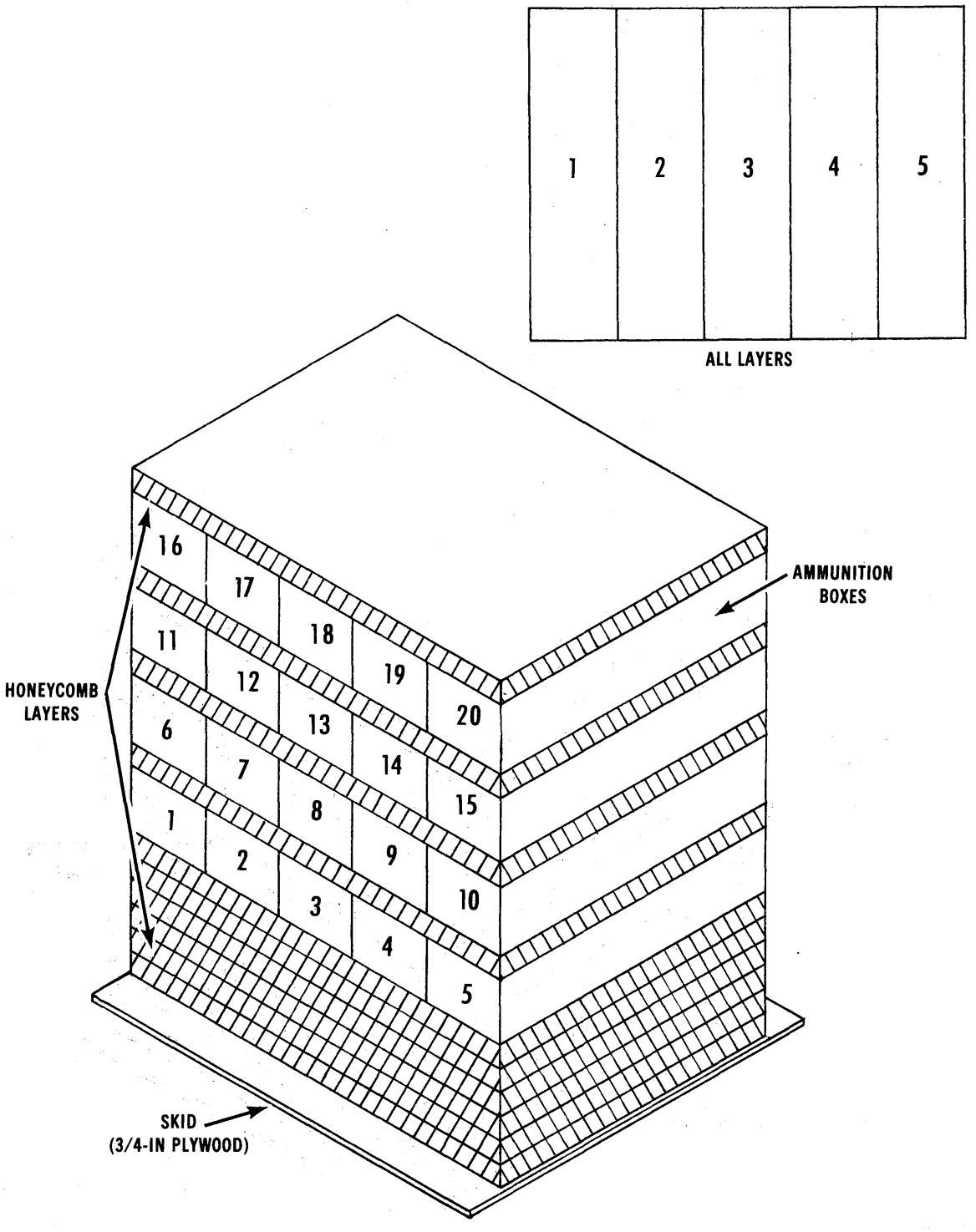


Figure 2-88

The following ammunition item is rigged in an A-22 cargo bag for high-velocity airdrop as shown in figure 2-88.

Demolition Item

Firing device, demolition, M1A1, pressure type
(DODAC 1375-M626)

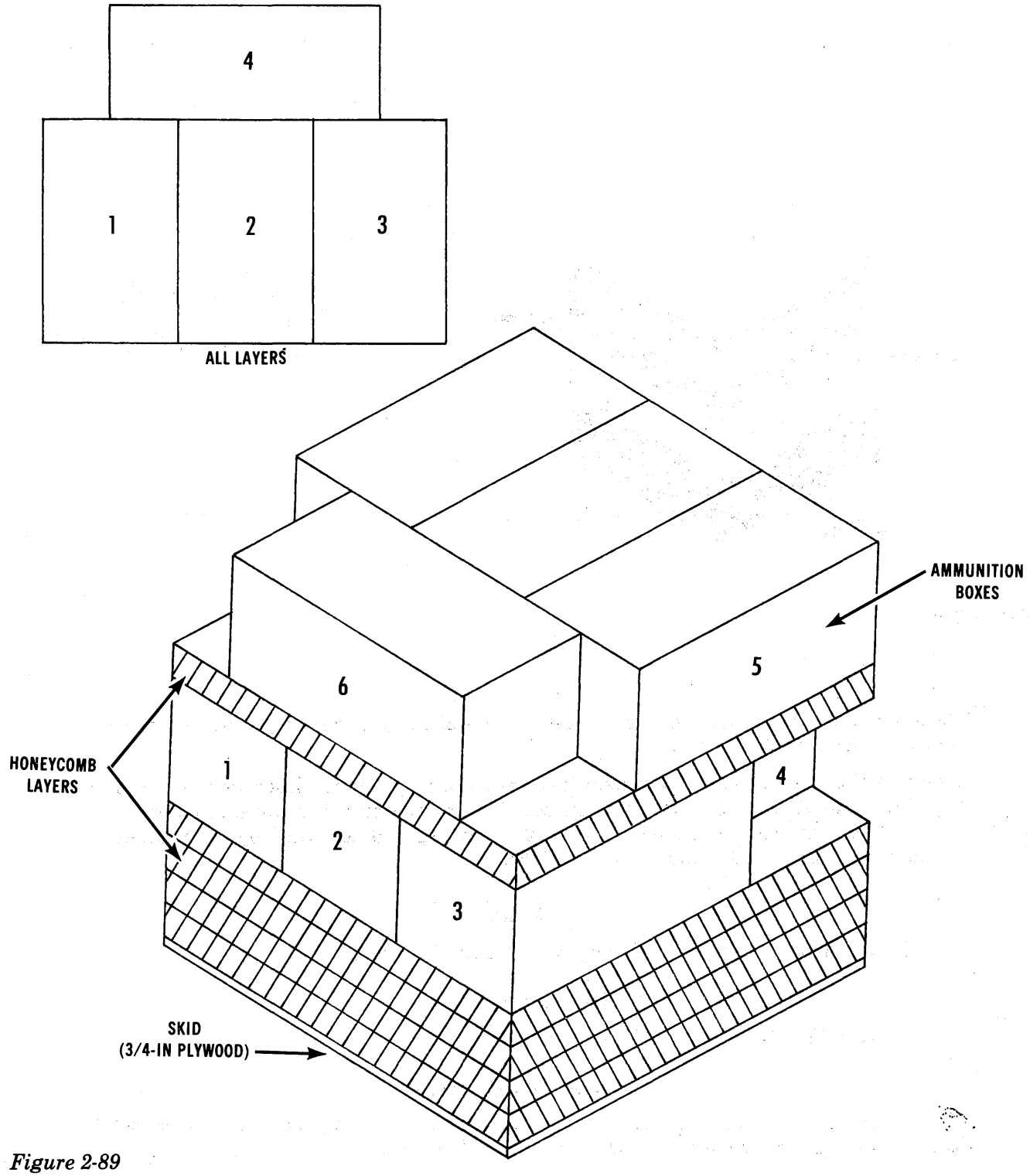


Figure 2-89

The following ammunition item is rigged in an A-22 cargo bag for high-velocity airdrop as shown in figure 2-89.

Demolition Item

Fuze, Blasting, Time M700 (DODAC 1375-M670)

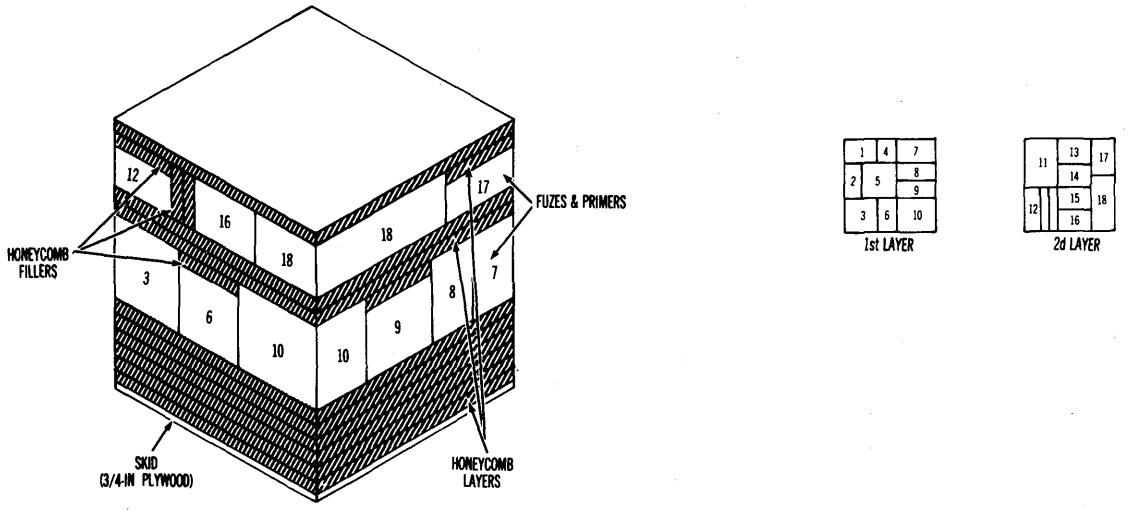


Figure 2-90

The following ammunition items are rigged in an A-22 cargo bag for high-velocity airdrop in accordance with figure 2-90.

Dropping these items as a single item load may not be practical; however, they can be contained in an A-22 cargo bag with other compatible items and air-dropped. Quantity and type of items that can be rigged in an A-22 cargo bag is determined by the individual ammunition container dimensions and weight.

Mine

Mine Chemical Agent, 1 gal (Empty) (DODAC 1345-K260)

Incendiary Item

Starter, Fire, NP3, M2 (DODAC 1370-L621)

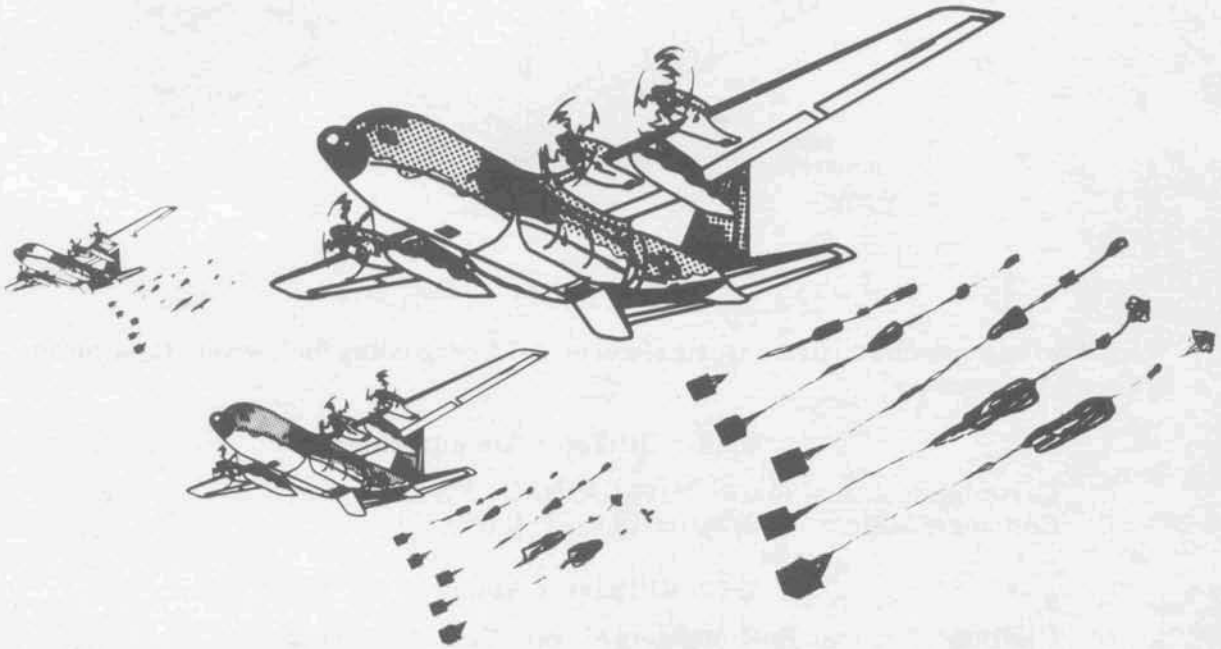
Fuzes and Primers

When Proximity fuzes are air-dropped, the boxed fuzes must be dropped in the "nosedown" position. If the boxes are damaged the fuzes should not be used.

Fuze, MT, M565 (DODAC 1390-N248)
Fuze, MTSQ, M500 or M500A1 (DODAC 1390-N275)
Fuze, MTSQ, M501 or M501A1 (DODAC 1390-N276)
Fuze, MTSQ, M502 or M502A1 (DODAC 1390-N277)
Fuze, MT, M564 (DODAC 1390-N278)
Fuze, MTSQ, M518 (DODAC 1390-N279)
Fuze, MTSQ, M520 (DODAC 1390-N280)
Fuze, MTSQ, M577 (DODAC 1390-N285)

Fuze, PD, M572 (DODAC 1390-N311)
Fuze, PD, M48A3 (DODAC 1390-N318)
Fuze, PD, M535 (DODAC 1390-N323)
Fuze, PD, M508 (DODAC 1390-N326)
Fuze, PD, M557 (DODAC 1390-N335)
Fuze, TSQ, M54 (DODAC 1390-N400)
Fuze, Proximity, M532 (DODAC 1390-N402)
Fuze, Proximity, M514 or M514A1 or M514B1 (DODAC 1390-N411)
Fuze, Proximity, M513A1 or M513B1 (DODAC 1390-N412)
Fuze, Proximity, M516 (DODAC 1390-N416)
Fuze, Proximity, M517 (DODAC 1390-N417)
Fuze, Proximity, M515 (DODAC 1390-N420)
Fuze, Proximity, M728 (DODAC 1390-N463)
Fuze, Proximity, M514A1 (DODAC 1390-N477)
Primer, Percussion, M82 (DODAC 1390-N523)
Primer, Percussion, MK2A4 (DODAC 1390-N525)

CHAPTER 3
RIGGING A-7A CARGO SLING LOADS



Section I
RIGGING A-7A CARGO SLINGS FOR LOW-VELOCITY AIRDROP

3-1. Preparing A-7A Cargo Sling Loads

Prepare the A-7A cargo sling assembly according to FM 10-501/TO 13C7-1-11.

3-2. Special Instructions

a. The ammunition loads are positioned in the A-7A cargo sling for low-velocity airdrop according to the figures listed in this section.

b. A-7A cargo sling dimension limits are listed in FM 10-501/TO 13C7-1-11 according to type of aircraft used.

c. The minimum allowable rigged weight of an A-7A cargo sling, including parachute, shall be 35 pounds per square foot, based upon the largest surface area.

d. Close and secure the A-7A cargo sling according to FM 10-501/TO 13C7-1-11.

3-3. Parachute Requirements

Select the correct size parachute(s) from Table 1-1. Attach the parachute(s) to the rigged load according to FM 10-501/TO-13C7-1-11.

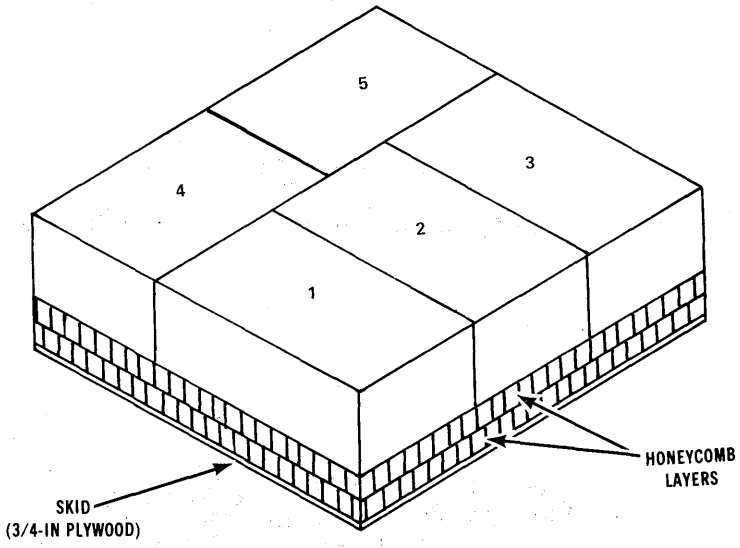


Figure 3-1

The following ammunition items are rigged in an A-7A cargo sling for low-velocity airdrop as shown in figure 3-1.

5.56-Millimeter Ammunition

Cartridge, 5.56-mm, Tracer, M196 (DODAC 1305-A068)
Cartridge, 5.56-mm, Ball, M193 (DODAC 1305-A071)

7.62-Millimeter Ammunition

Cartridge, 7.62-mm, Ball, M59 and M80 (DODAC 1305-A122)
Cartridge, 7.62-mm, Tracer, M62 (DODAC 1305-A124)
Cartridge, 7.62-mm, Ball Tracer Linked, with M13 Link, M80 (DODAC 1305-A127)
Cartridge, 7.62-mm, 5-Rd. Clip, M80 (DODAC 1305-A130)
Cartridge, 7.62-mm, Ball Tracer, Linked with M13 Link, M62 (DODAC 1305-A131)
Cartridge, 7.62-mm, Match, M118 (DODAC 1305-A136)
Cartridge, 7.62-mm, M62 Linked (DODAC 1305-A137)
Cartridge, 7.62-mm, Tracer, M62 (DODAC 1305-A140)
Cartridge, 7.62-mm, Ball, M80 Linked (DODAC 1305-A143)
Cartridge, 7.62-mm, Tracer M62 Clipped (DODAC 1305-A145)
Cartridge, 7.62-mm, Tracer M62 Linked (DODAC 1305-A146)

.30-Caliber Ammunition

Cartridge, Cal .30, AP API, 5-Rd. Clip, Grade R (DODAC 1305-A203)
Cartridge, Cal .30, AP API, 8-Rd. Clip, Grade R (DODAC 1305-A205)
Cartridge, Cal .30, AP API, Linked, M2, with M1 Link Grade MG (DODAC 1305-A207)
Cartridge, Cal .30, AP API, Linked, with Tracer (DODAC 1305-A209)
Cartridge, Cal .30, Ball, M2 (DODAC 1305-A212)
Cartridge, Cal .30, Ball, M2 Clipped (DODAC 1305-A216)
Cartridge, Cal .30, Ball and Tracer, Linked (DODAC 1305-A218)
Cartridge, Cal .30, Tracer, Carton (DODAC 1305-A230)
Cartridge, Cal .30, Tracer, M1 or M25 Clipped (DODAC 1305-A234)
Cartridge, Cal .30, Tracer, M25, Linked (DODAC 1305-A236)

.32-Caliber Ammunition

Cartridge, Cal .32, Ball, Auto 71, Grain (DODAC 1305-A350)

.38-Caliber Ammunition

Cartridge, Cal .38, Special, Ball, M41 (DODAC 1305-A400)

.45-Caliber Ammunition

Cartridge, Cal .45, Ball, M1911 (DODAC 1305-A475)

.50-Caliber Ammunition

Cartridge, Cal .50, API M8 (DODAC 1305-A531)
Cartridge, Cal .50, API, M8 Linked (DODAC 1305-A533)
Cartridge, Cal .50, APT-T, M20 (DODAC 1305-A541)
Cartridge, Cal .50, APIT, M20, Linked, with M2 Link, Grade AC (DODAC 1305-A543)
Cartridge, Cal .50, APIT, M20, Linked, with M2 Link, Grade MG (DODAC 1305-A544)
Cartridge, Cal .50, Tracer, M17, Grade MG (DODAC 1305-A571)
Cartridge, Cal .50, Tracer, M17 Linked with M2 Link, Grade AC (DODAC 1305-A572)
Cartridge, Cal .50, Spotter-Tracer, M48A2 (DODAC 1305-A574)
Cartridge, Cal .50, Linked, 4 API M8, API-T M20 (DODAC 1305-A576)
Cartridge, Cal .50, Linked, 4 API M8, 1 API-T M20 (DODAC 1305-A577)
Cartridge, Cal .50, API-T M20 Linked (DODAC 1305-A585)
Cartridge, Cal .50, Linked, 4 API M8, 1 APT-T (DODAC 1305-A587)
Cartridge, Cal .50, Linked, 4 API M8, 1 API-T M20 (DODAC 1305-A589)

Grenades

Cartridge, Grenade, Rifle, NATO, 7.62-mm, M64 (DODAC 1330-G839)

Incendiary Item

Burster, Incendiary, Field, M4 without Fuze (DODAC 1345-K010)

Mine

Mine, Antipersonnel, M18A1, with Accessories (DODAC 1345-K143)

Signal Items

Signal, Illuminating, Ground, M195 Green Star (DODAC 1370-L305)
Signal, Illuminating, Ground, M158 Red Star (DODAC 1370-L306)
Signal, Illuminating, Ground, M159 White Star (DODAC 1370-L307)
Signal, Illuminating, Ground Parachute, M126A1 (DODAC 1370-L311)
Signal, Illuminating, Parachute, M127A1, White Star (DODAC 1370-L312)
Signal, Illuminating GRD, Cluster, M125A1 (DODAC 1370-L314)
Signal, Smoke, Parachute, M129A1, Red (DODAC 1370-L323)
Signal, Smoke, Parachute, M128A1, Green (DODAC 1370-L324)

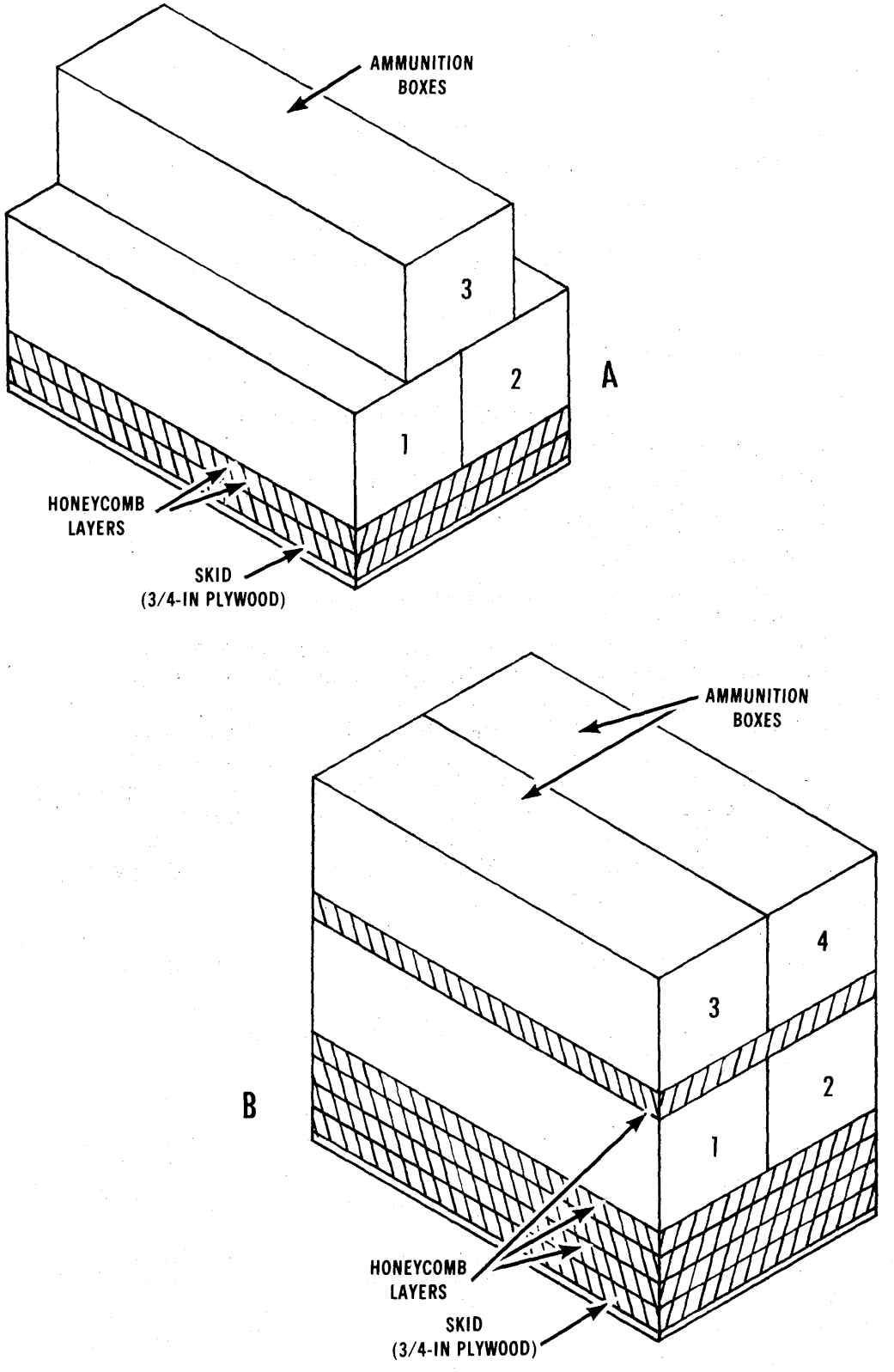

AMMUNITION
BOXES
3
2
1
A
HONEYCOMB
LAYERS
SKID
(3/4-IN PLYWOOD)
AMMUNITION
BOXES
4
3
2
1
B
HONEYCOMB
LAYERS
SKID
(3/4-IN PLYWOOD)

Figure 3-2

The following ammunition items are rigged in an A-7A cargo sling for low-velocity airdrop as shown in A or B of figure 3-2.

7.62-Millimeter Ammunition

Cartridge, 7.62-mm, Linked, 9-Ball M80, 1TR, XM276 (DODAC 1305-A163)
Cartridge, 7.62-mm, Linked, 9-Ball M80, 1TR, M62 (DODAC 1305-A165)

.30-Caliber Ammunition

Cartridge, Cal .30, AP API, CTN, Grade R (DODAC 1305-A201)
Cartridge, Cal .30, AP API, CTN, Grade MG (DODAC 1305-A202)
Cartridge, Cal .30, Ball, M2 Clipped (DODAC 1305-A214)
Cartridge, Cal .30, Tracer, M1, Clipped (DODAC 1305-A232)

4.2-Inch Ammunition

If parachute malfunctions, 4.2-inch ammunition may detonate on ground impact and contaminate the drop zone. All damaged rounds and containers must be considered dangerous and must be destroyed in place.

Cartridge, 4.2-in, HE, M329A1 (DODAC 1315-C704)
Cartridge, 4.2-in, HE, M329A1 (DODAC 1315-C705)
Cartridge, 4.2-in, Illuminating, M335A2 (DODAC 1315-C706)
Cartridge, 4.2-in, Smoke, WP, M328A1 (DODAC 1315-C708)

Mine

Mine, Antitank, HE, M21 Heavy with Fuze Combination M607 (DODAC 1345-K181)

Demolition Item

Firing Device, Demolition, M1, Pull Type (DODAC 1375-M630)

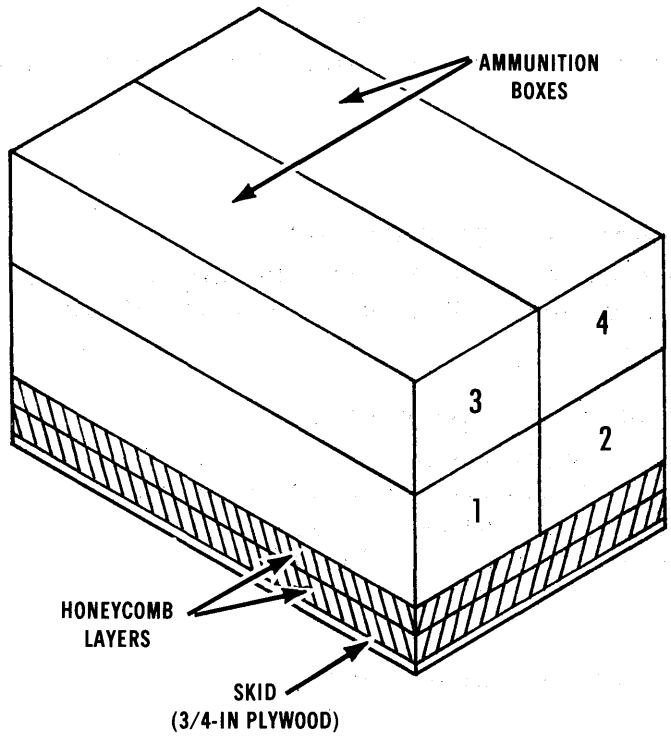


Figure 3-3

The following ammunition items are rigged in an A-7A cargo sling for low-velocity airdrop as shown in figure 3-3.

.50-Caliber Ammunition

Cartridge, Cal .50, API, M8 Carton, Grade MG or API-T, M20 (DODAC 1305-A532)
Cartridge, Cal .50, API, M8, Linked, with M2, Grade MG (DODAC 1305-A534)

40-Millimeter Ammunition

Cartridge, 40-mm, HEI-T, SD, M3 (DODAC 1310-B559)

60-Millimeter Ammunition

Cartridge, 60-mm, Illuminating, M83A3 (DODAC 1310-B627)

81-Millimeter Ammunition

Caution must be used after airdrop of 81-mm ammunition since possible detonation and drop zone contamination may occur.

Cartridge, 81-mm, Illuminating, M301A3 (DODAC 1315-C226)

175-Millimeter Ammunition

Additive Jacket, M1 for 175-mm Propelling Charge (DODAC 1320-D110)

Mine

M26 mine may detonate on ground impact in the event of a parachute malfunction. All damaged mines and containers must be considered dangerous and destroyed in place.

Mine, AP, M26 (DODAC 1345-K146)

Demolition Items

Charge, Demolition, Block, 1/4-lb TNT (DODAC 1375-M030)
Charge, Demolition, Roll Type, XM-186 (DODAC 1375-M060)
Cap, Blasting, Special Non-Electric, M7 (DODAC 1375-M131)
Cord, Detonating, Reinforced Pliofilm/Wrapped Waterproof, Type I (DODAC 1375-M456)
Dynamite, Military, M1 (DODAC 1375-M591)
Firing Device, Demolition, M1A1 Pressure Type (DODAC 1375-M626)
Charge, Assembly, Demolition, M183 (DODAC 1375-M757)

Fuzes and Primers

Primer, Percussion, M82 (DODAC 1390-N523)

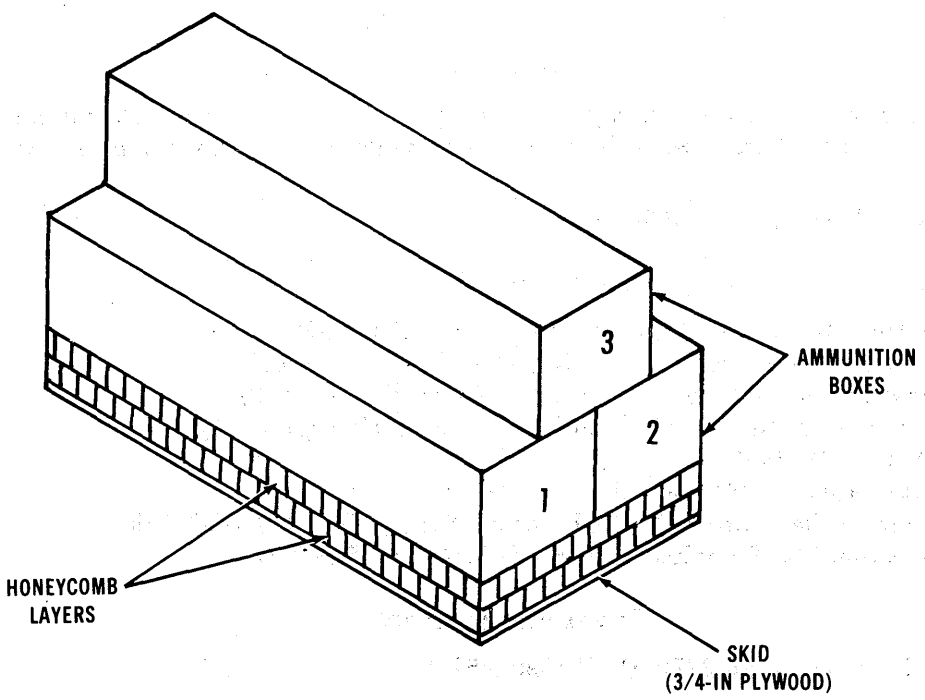


Figure 3-4

The following ammunition items are rigged in an A-7A cargo sling for low-velocity airdrop as shown in figure 3-4.

.50-Caliber Ammunition

Cartridge, Cal .50, APIT, M20, Carton, Grade MG (DODAC 1305-A542)

40-Millimeter Ammunition

Cartridge, 40-mm, AP-T, M81 (DODAC 1310-B552)
Cartridge, 40-mm, HE-T, SD, M3 MK11, MK2 (DODAC 1310-B562)

90-Millimeter Ammunition

90-mm ammunition will contaminate the drop zone if parachute malfunctions.

Cartridge, 90-mm, WP, M313C (DODAC 1315-C258)
Cartridge, 90-mm, APC-T, M82 (DODAC 1315-C260)
Cartridge, 90-mm, HE, M71 (DODAC 1315-C265)
Cartridge, 90-mm, HE, M71 (DODAC 1315-C266)
Cartridge, 90-mm, HE, M71 (DODAC 1315-C267)
Cartridge, 90-mm, Smoke, WP, M313 (DODAC 1315-C273)
Cartridge, 90-mm, HE-T M71A1 with Fuze PD, M557 (DODAC 1315-C280)
Cartridge, 90-mm, AP-T, M318 or M318A1 (DODAC 1315-C285)
Cartridge, 90-mm, HEP-T, T142E3 (DODAC 1315-C292)
Cartridge, 90-mm, HEAT, M431 (DODAC 1315-C294)
Cartridge, 90-mm, Canister, M377 (DODAC 1315-C601)

105-Millimeter Ammunition

Cartridge, 105-mm, HE, M1 (DODAC 1315-C443)
Cartridge, 105-mm, HE, M1 (DODAC 1315-C444)
Cartridge, 105-mm, HE, M1 (DODAC 1315-C445)
Cartridge, 105-mm, HEP-T, M327 (DODAC 1315-C448)
Cartridge, 105-mm, Illuminating, M314A3 (DODAC 1315-C449)
Cartridge, 105-mm, Smoke, HC, BE, M84, or M84A1 (DODAC 1315-C452)
Cartridge, 105-mm, Smoke, WP, M60 (DODAC 1315-C454)
Cartridge, 105-mm, HE, M444 (DODAC 1315-C462)
Cartridge, 105-mm, HE, XM548E1 (DODAC 1315-C463)
Cartridge, 105-mm, Tactical, CS, M629 (DODAC 1315-C468)
Cartridge, 105-mm, Smoke, WP, M60 (DODAC 1315-C477)
Cartridge, 105-mm, APDS-T, M728 (DODAC 1315-C494)
Cartridge, 105-mm, APDS-T, M392A2 (DODAC 1315-C505)
Cartridge, 105-mm, HEAT-T, M456A1E2 (DODAC 1315-C508)
Cartridge, 105-mm, TP-T M490 (DODAC 1315-C511)
Cartridge, 105-mm, Smoke, WP-T, M416, with Fuze BD M534A1 (DODAC 1315-C512)
Cartridge, 105-mm, Smoke, WP-T, M416 with Fuze BD M-34A1, Steel Case (DODAC 1315-C512)
Cartridge, 105-mm, APERS-T, M546, with Fuze MT, M563 (DODAC 1315-C513)
Cartridge, 105-mm, HEP-T M393A2 (DODAC 1315-C518)
Cartridge, 105-mm, APER-T, M494 with Fuze M571 (DODAC 1315-C519)

106-Millimeter Ammunition

Cartridge, 106-mm, HEAT, M344A1 (DODAC 1315-C650)
Cartridge, 106-mm, HEP-T, M346A1 (DODAC 1315-C651)
Cartridge, 106-mm, APERS-T M581 (DODAC 1315-C660)

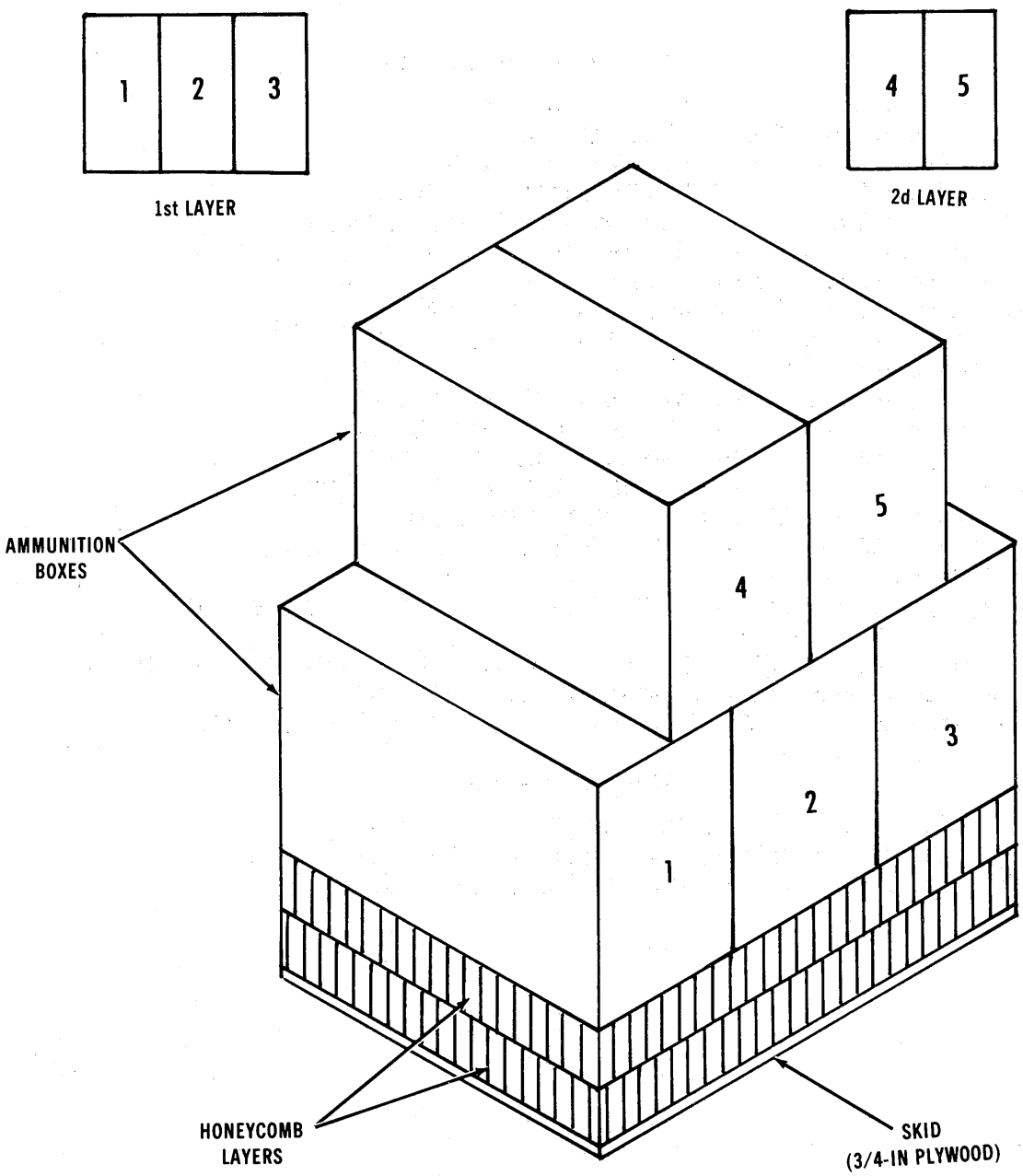


Figure 3-5

The following ammunition items are rigged in an A-7A cargo sling for low-velocity airdrop as shown in figure 3-5.

20-Millimeter Ammunition

Cartridge, 20-mm, Linked 4HE1/TP-T (DODAC 1305-A653)
Cartridge, 20-mm, Linked 7HEI, M56A3, XM220 (DODAC 1305-A655)
Cartridge, 20-mm, Linked HEAT-SD M246 (DODAC 1305-A792)

Demolition Items

Charge, Demolition, Block, 1/2-lb TNT (DODAC 1375-M031)
Charge, Demolition, Block, 1-lb TNT (DODAC 1375-M032)

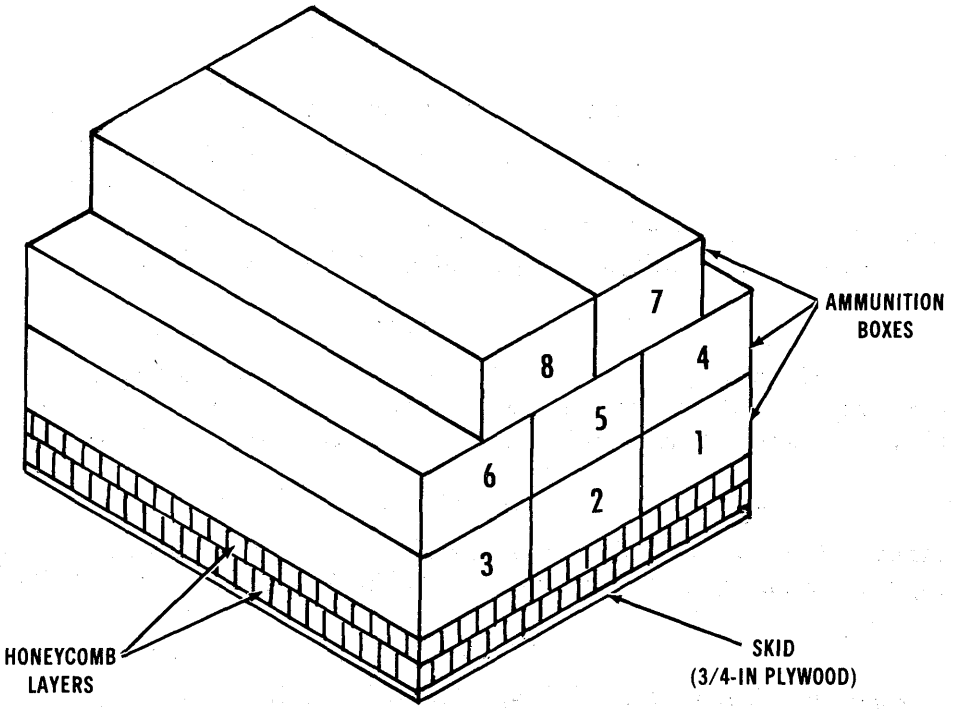


Figure 3-6

The following ammunition items are rigged in an A-7A cargo sling for low-velocity airdrop as shown in figure 3-6.

40-Millimeter Ammunition

Cartridge, 40-mm, HEDP M33 (DODAC 1310-B470)
Cartridge, 40-mm, HE, M430 (DODAC 1310-B542)
Cartridge, 40-mm, HE, Linked, M383E1 (DODAC 1310-B571)
Cartridge, 40-mm, HE, Linked, M384 (DODAC 1310-B572)

60-Millimeter Ammunition

Cartridge, 60-mm, HE, M49A4 (DODAC 1310-B632)

81-Millimeter Ammunition

Caution must be used after airdrop of 81-mm ammunition since possible detonation and drop zone contamination may occur.

Cartridge, 81-mm, HE, M362 (DODAC 1315-C222)
Cartridge, 81-mm, HE, M362 (DODAC 1315-C223)
Cartridge, 81-mm, HE, M43A1 (DODAC 1315-C225)
Cartridge, 81-mm, Smoke, WP, M57 (DODAC 1315-C230)
Cartridge, 81-mm, HE, M374A2 (DODAC 1315-C236)
Cartridge, 81-mm, HE, M384A2 with Fuze M524A5 (DODAC 1315-C256)
Cartridge, 81-mm, HE, M374A2 with Fuze M524A6 (DODAC 1315-C256)
Cartridge, 81-mm, HE, M374A2 with Fuze M526 (DODAC 1315-C256)
Cartridge, 81-mm, HE, M374A2 with Fuze M567 (DODAC 1315-C256)
Cartridge, 81-mm, HE, M374A2 with Fuze M716 (DODAC 1315-C256)
Cartridge, 81-mm, Smoke, WP, M375A2 with Fuze PD 524A6 (DODAC 1315-C276)
Cartridge, 81-mm, Smoke, WP, M375A2 with Fuze M526 (DODAC 1315-C276)
Cartridge, 81-mm, Smoke, WP, M375A2 without Fuze (DODAC 1315-C276)

90-Millimeter Ammunition

90-mm ammunition will contaminate the drop zone if parachute malfunctions.

Cartridge, 90-mm, HEAT, M371 (DODAC 1315-C282)
Cartridge, 90-mm, Canister, Antiper, M590 (DODAC 1315-C410)

Grenades

Grenade, Hand Fragmentation, M67 with Fuze (DODAC 1330-G881)
Grenade, Hand Fragmentation, M33 (DODAC 1330-G888)
Grenade, Hand Offensive, MK3A2, with Fuze (DODAC 1330-G911)

Signal Items

Signal, Illuminating, A/C, Single Star, AN-43A2, Red (DODAC 1370-L231)
Signal, Illuminating, A/C, Single Star, AN-M45A2, Green (DODAC 1370-L233)

Demolition Items

Charge, Demolition, Block, PETN, M118 (DODAC 1375-M024)
Charge, Demolition, Block, 40-lb Cratering Ammonia Nitrate (DODAC 1375-M039)
Firing Device, Demolition, M5, Pressure Release Type (DODAC 1375-M627)
Firing Device, Demolition, M1, Release Type (DODAC 1375-M631)
Igniter Time Blasting Fuze, M2 or M60, Weatherproof (DODAC 1375-M766)

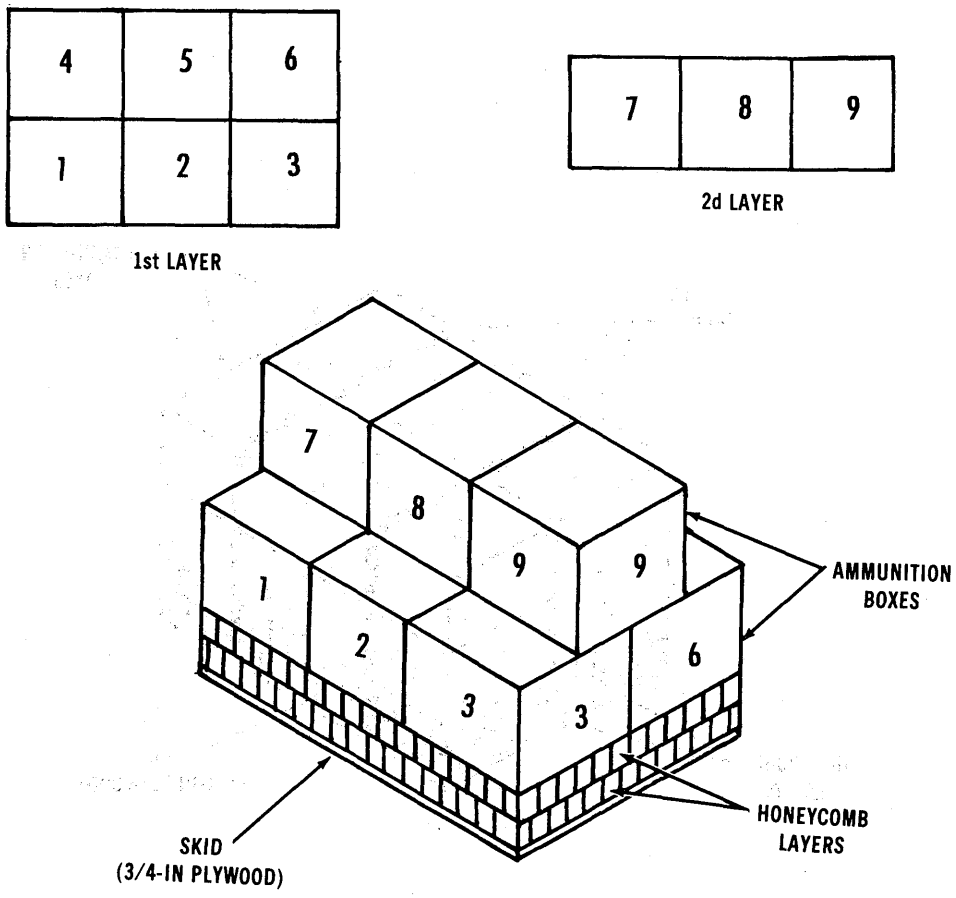


Figure 3-7

The following ammunition items are rigged in an A-7A cargo sling for low-velocity airdrop as shown in figure 3-7.

40-Millimeter Ammunition

Cartridge, 40-mm, White Star, Parachute, M583A1 (DODAC 1310-B535)

Demolition Item

Ignition cylinders, flamethrower, M1 will detonate on ground impact if parachute malfunctions. These ignitors do not contain explosives but will burn, producing an intense heat.

Ignition Cylinder, Flamethrower, M1, Type II (DODAC 1375-M680)

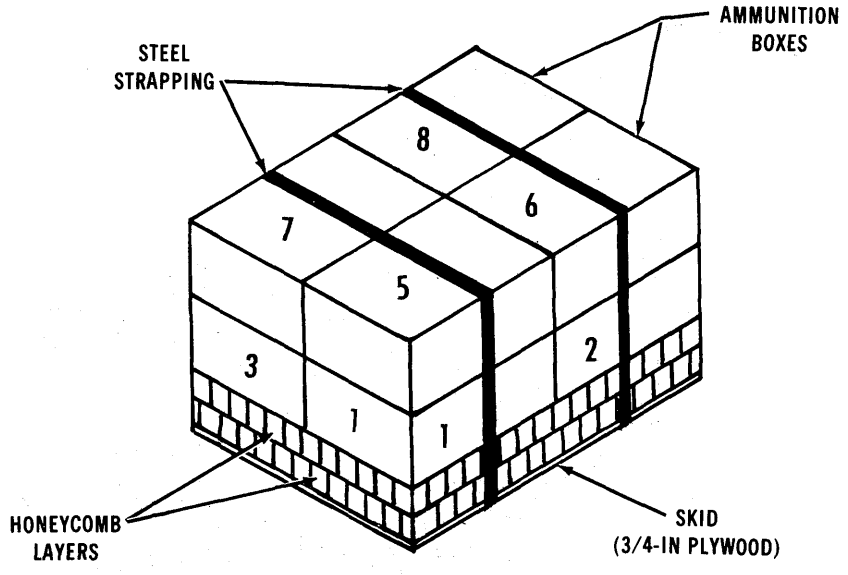


Figure 3-8

The following ammunition items are rigged in an A-7A cargo sling for low-velocity airdrop as shown in figure 3-8.

40-Millimeter Ammunition

Cartridge, 40-mm, HEDP, M433 (DODAC 1310-B546)

Signal Item

The surface trip flare, M49A1 may burn on ground impact if parachute malfunctions. The surface trip flares must be rigged in separate airdrop containers and must not be mixed with other explosive or ammunition items.

Flare, Surface, M49A1, Trip (DODAC 1370-L495)

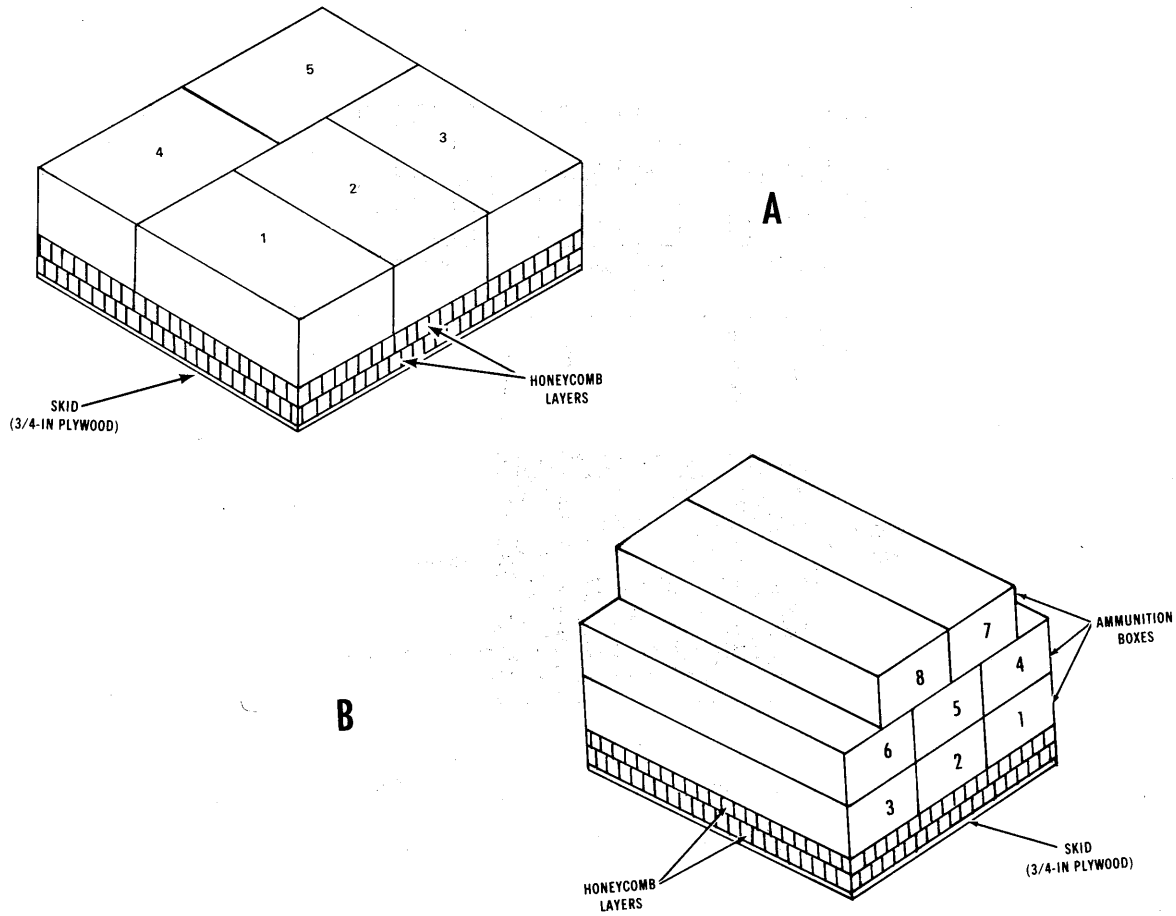


Figure 3-9

The following ammunition items are rigged in an A-7A cargo sling for low-velocity airdrop as shown in A or B of figure 3-9.

60-Millimeter Ammunition

Cartridge, 60-mm, Smoke, WP, M302A1 (DODAC 1310-B630)

Grenade

Grenade, Hand, Incendiary, TH-3, AN-M14, with Fuze M201A1 (DODAC 1330-G900)

Mine

Mine, Antipersonnel, M16A1, with Fuze Mine M605 (DODAC 1345-K092)

Demolition Items

Charge, Demolition Block, Comp C4 1 1/4-lb, M112 (DODAC 1375-M023)
Charge, Demolition, Block, M3 (DODAC 1375-M037)
Firing Device, Demolition, M3 Pull Release Type (DODAC 1375-M629)
Charge, Assembly, Demolition, M37 (DODAC 1375-M756)

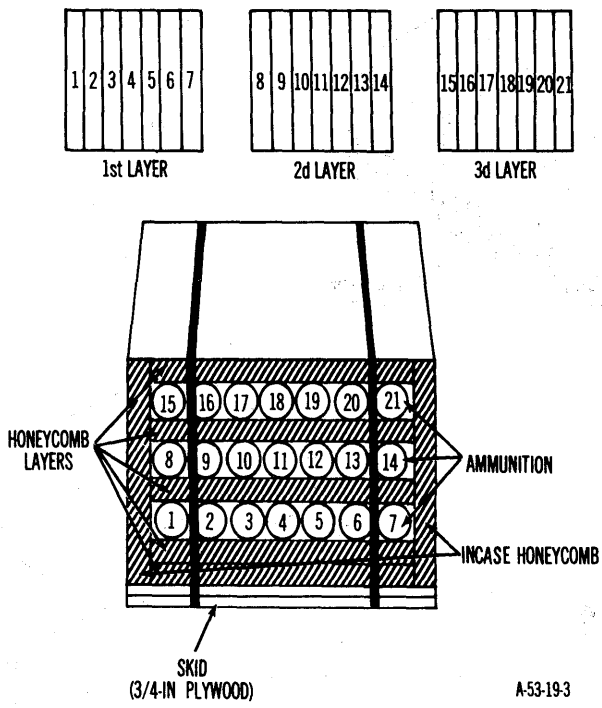


Figure 3-10

The following ammunition items are rigged in an A-7A cargo sling for low-velocity airdrop as shown in figure 3-10.

90-Millimeter Ammunition (Rigged in Fiber Containers)

90-millimeter ammunition will contaminate the drop zone if parachute malfunctions.

Cartridge, 90-mm, HEAT, M371 (DODAC 1315-C282)
Cartridge, 90-mm, Canister, Antiper, M590 (DODAC 1315-C410)

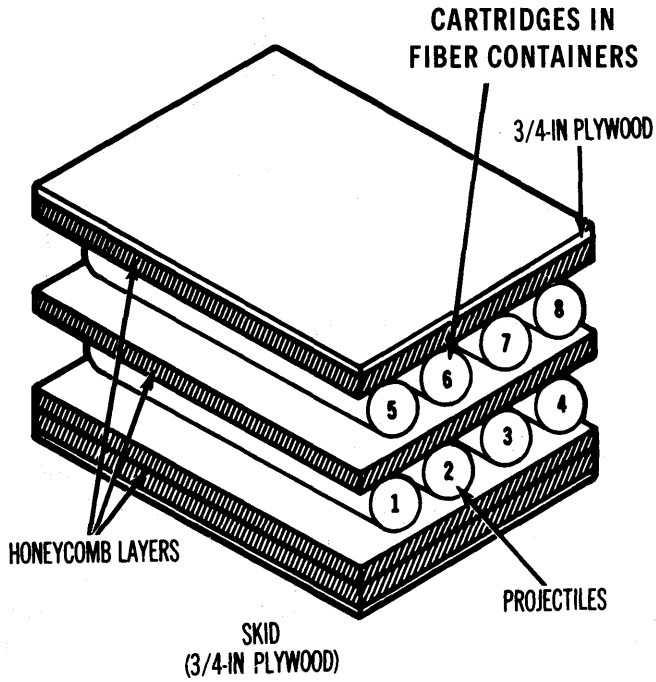


Figure 3-11

The following ammunition items are rigged in an A-7A cargo sling for low-velocity airdrop as shown in figure 3-11.

105-Millimeter Ammunition
(Rigged in Fiber Containers)

Cartridge, 105-mm, HEAT-T, M456A1E2 (DODAC 1315-C508)
Cartridge, 105-mm, TP-T M490 (DODAC 1315-C511)

152-Millimeter Ammunition
(Rigged in Fiber Containers)

Cartridge, 152-mm, HEAT-MP, XM409E6 (DODAC 1320-D381)
Cartridge, 152-mm, Canister, M625A1 (DODAC 1320-D390)

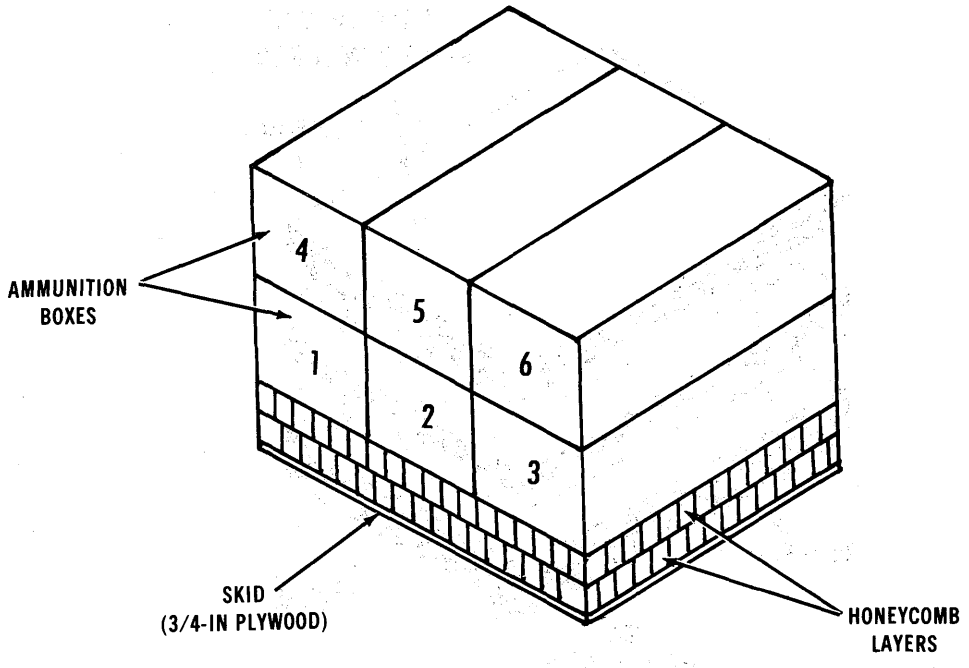


Figure 3-12

The following ammunition items are rigged in an A-7A cargo sling for low-velocity airdrop as shown in figure 3-12.

152-Millimeter Ammunition

Cartridge, 152-mm, TP-T, XM411E3 (DODAC 1320-D380)

Demolition Items

Charge, Demolition, Chain, M1, Eight 2 1/2-lb Telrytol Charge Strung on Detonating Cord (DODAC 1375-M035)
Charge, Demolition, Block, M2 (DODAC 1375-M036)
Charge, Demolition, Block, M541 (DODAC 1375-M038)
Charge, Demolition, Shaped, HJE, 15-lb, M2A3 (DODAC 1375-M420)
Charge, Demolition, Shaped, 40-lb, M3 (DODAC 1375-M421)
Detonator, Percussion, M1A2, 15-sec Delay (DODAC 1375-M450)

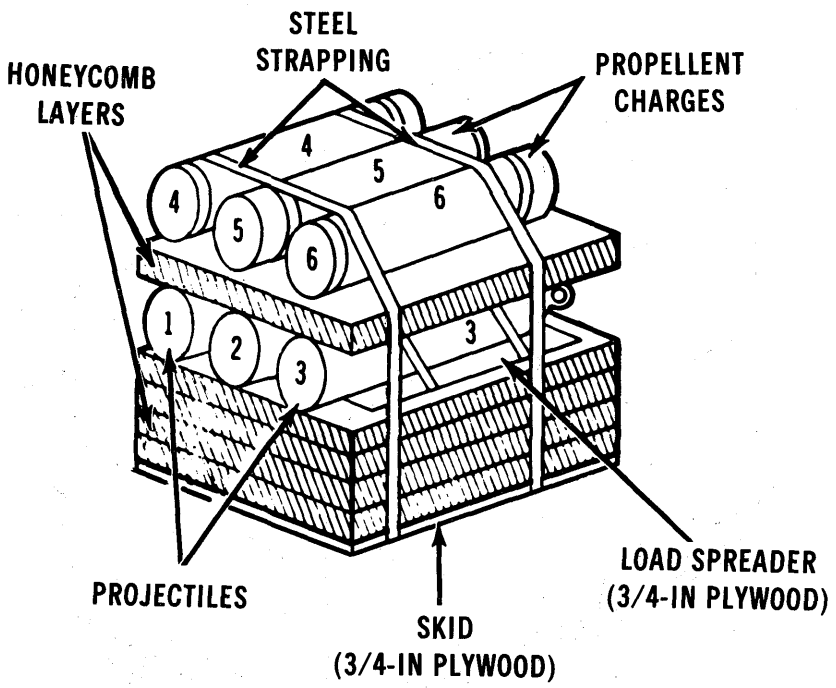


Figure 3-13

The following ammunition items are rigged in an A-7A cargo sling for low-velocity airdrop as shown in figure 3-13.

155-Millimeter Ammunition

Charge, Propelling, 155-mm, M19 (DODAC 1320-D480)
Projectile, 155-mm, Gas, Persistent, HD, M104 (DODAC 1320-D484)
Projectile, 155-mm, HE, M101 (DODAC 1320-D485)
Projectile, 155-mm, Smoke, WP, M104 (DODAC 1320-D487)
Reducer, Flash, Propelling Charge, M1 (DODAC 1320-D490)
Projectile, 155-mm, HE, ADAM M692 (DODAC 1320-D501)
Projectile, 155-mm, HE, ADAM M731 (DODAC 1320-D502)
Projectile, 155-mm, Illuminating, M485A2 (DODAC 1320-D505)
Projectile, 155-mm, HC, HE, M116E2 (DODAC 1320-D506)
*Charge, Propelling, 155-mm, M203 (DODAC 1320-D532)
Charge, Propelling, 155-mm, M3 (DODAC 1320-D540)
Charge, Propelling, 155-mm, M4A1 (DODAC 1320-D541)
Projectile, 155-mm, HE, M107 (DODAC 1320-D544)
Projectile, 155-mm, Smoke, HC, BE, M116 (DODAC 1320-D548)
Projectile, 155-mm, Smoke, WP, M110 (DODAC 1320-D550)
Reducer, Flash, Propelling Charge, M2 (DODAC 1320-D552)
Projectile, 155-mm, M449A1 (DODAC 1320-D562)
Projectile, 155-mm, HE, M483A1 (DODAC 1320-D563)
Projectile, 155-mm, HE, RA, M549 (DODAC 1320-D579)

Note: Required fuzes are rigged with the load.

***The old or new type propelling charge container may be rigged.**

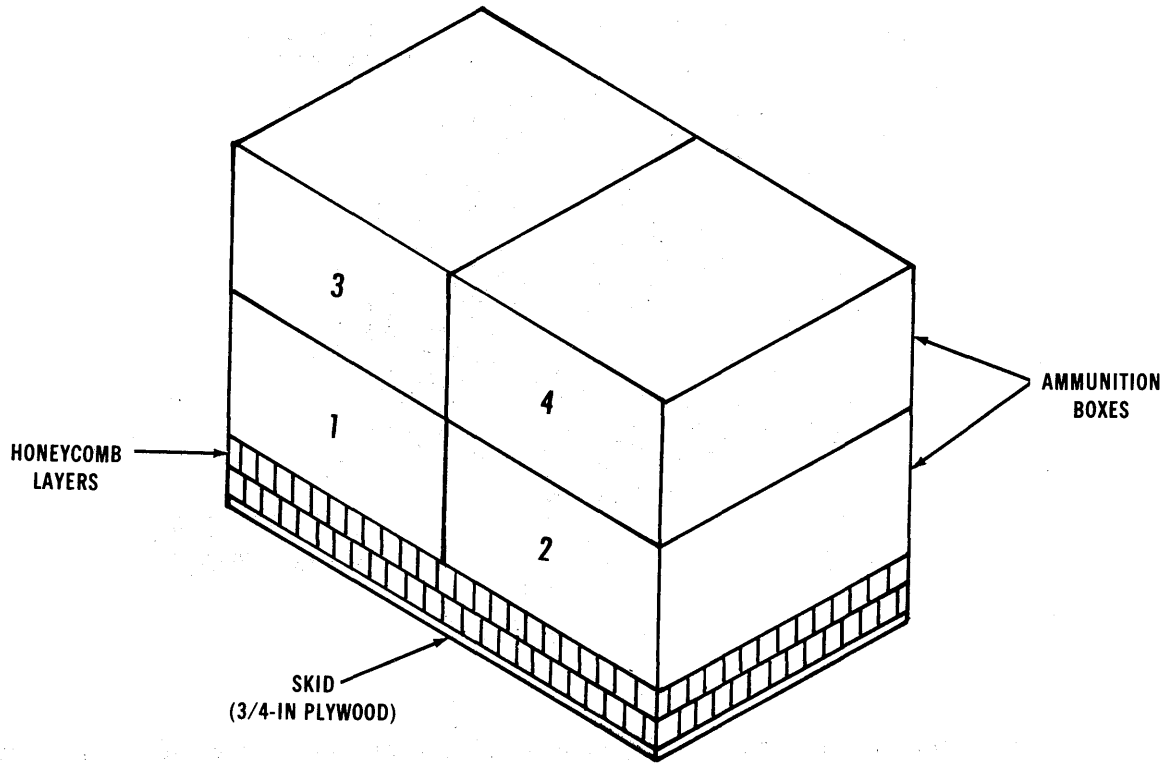


Figure 3-14

The following ammunition items are rigged in an A-7A cargo sling for low-velocity airdrop as shown in figure 3-14.

Grenades

Grenade, Hand, Fragmentation, M26A2 (DODAC 1330-G889)
Grenade, Hand, Fragmentation, M26 or M26A1 (DODAC 1330-G890)

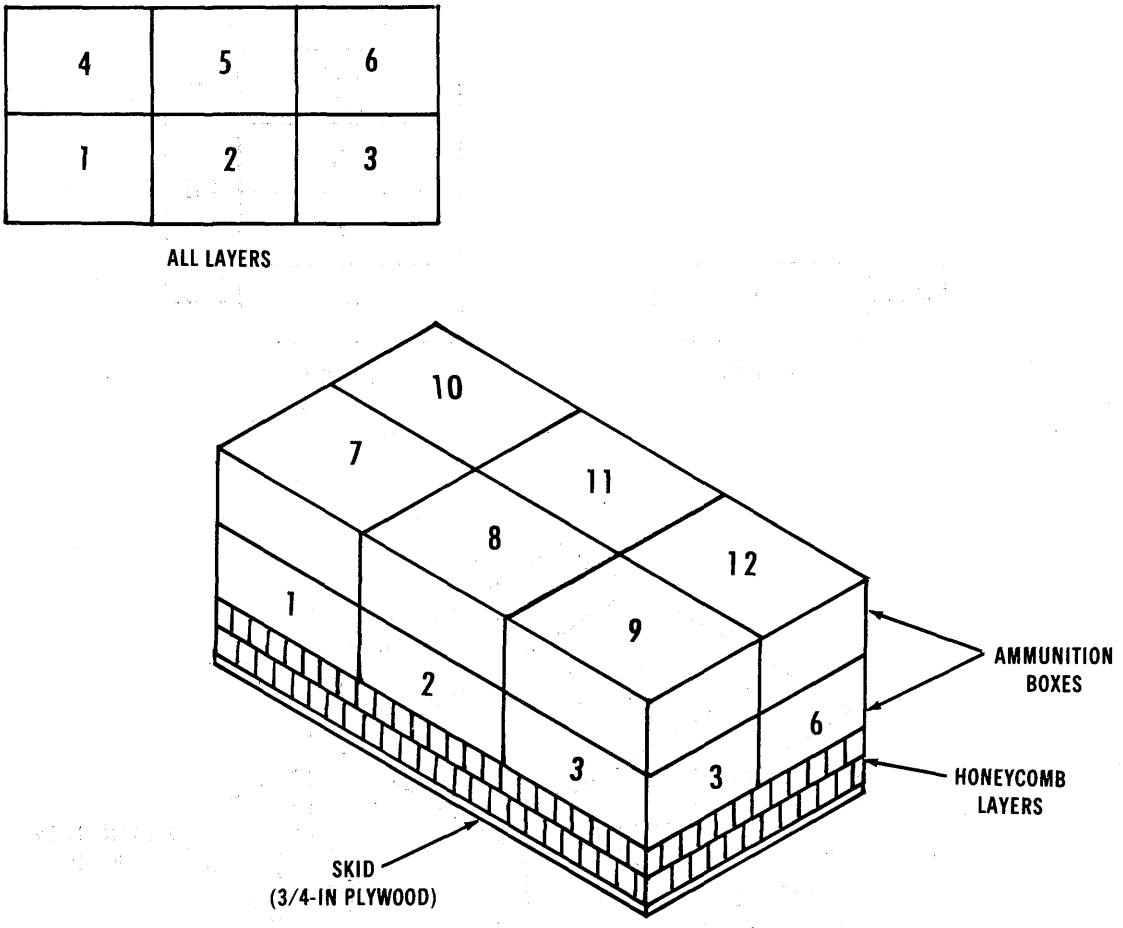


Figure 3-15

The following ammunition items are rigged in an A-7A cargo sling for low-velocity airdrop as shown in figure 3-15.

Grenades

If parachute malfunctions, smoke grenades may detonate on ground impact and could contaminate the drop zone.

Grenade, Hand, Smoke, HC, ABC, AN-M18, with Fuze (DODAC 1330-G930)
Grenade, Hand, Greem Smoke, M18, with Fuze (DODAC 1330-G940)
Grenade, Hand, Yellow Smoke, M18, with Fuze (DODAC 1330-G945)
Grenade, Hand, Red Smoke, M18, with Fuze (DODAC 1330-G950)
Grenade, Hand, Violet Smoke, M18, with Fuze M201A1 (DODAC 1330-G955)
Grenade, Hand, Riot Control, M7A3, with Fuze (DODAC 1330-G963)

Demolition Item

Coupling Base, Firing Device with Primer, Percussion M27 (DODAC 1375-M327)

Primer

Primer, Percussion, MK2A4 (DODAC 1390-N525)

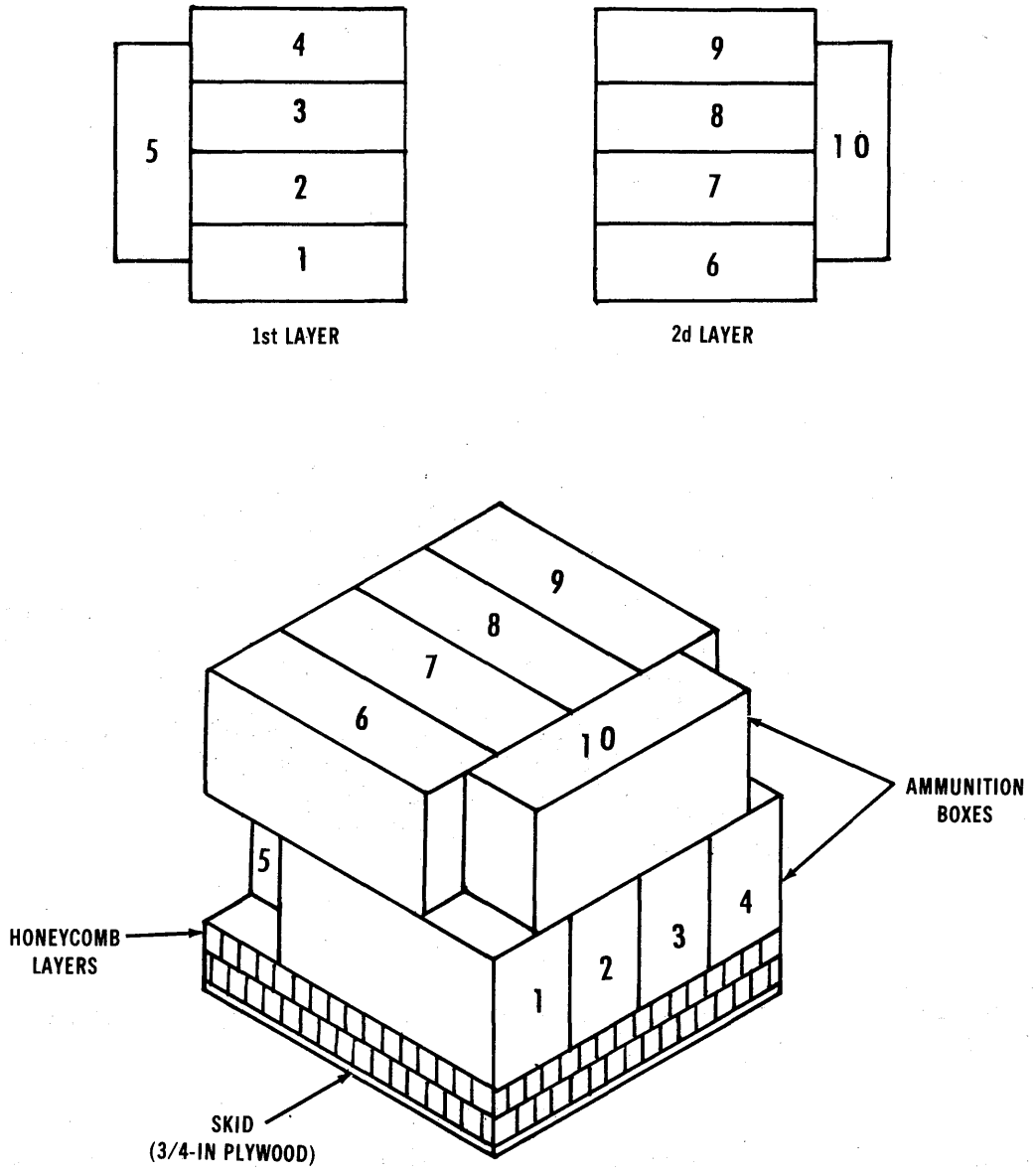


Figure 3-16

The following ammunition item is rigged in an A-7A cargo sling for low-velocity airdrop as shown in figure 3-16.

Mine

Activator, Mine, AR, M1 (DODAC 1345-K001)

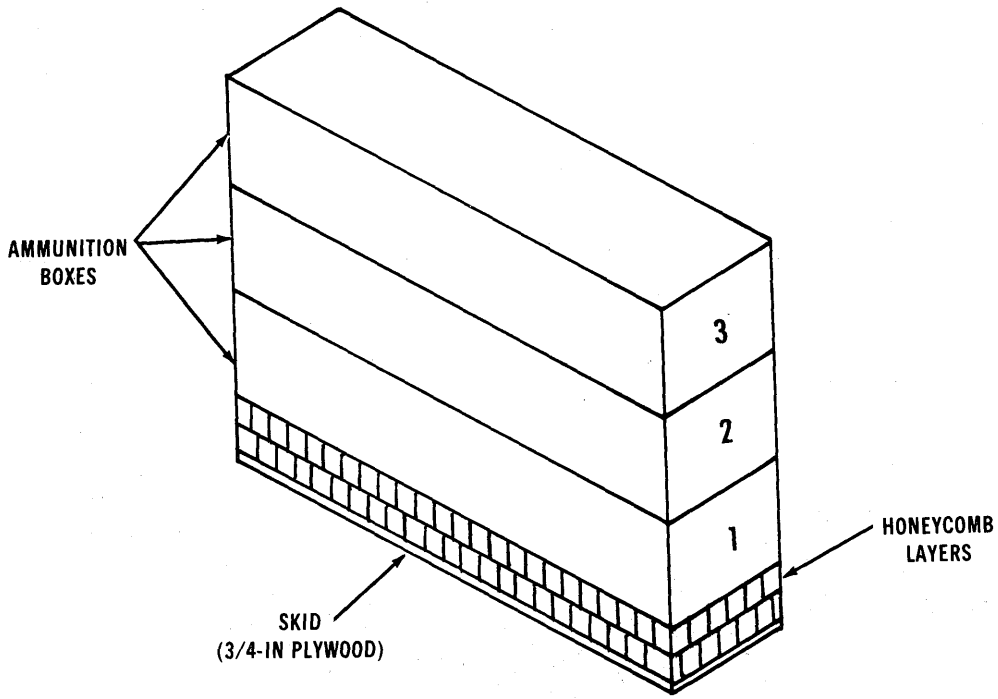


Figure 3-17

The following ammunition item is rigged in an A-7A cargo sling for low-velocity airdrop as shown in figure 3-17.

Mine

Mine, M19 may detonate on ground impact if parachute malfunctions. All damaged mines and containers must be considered dangerous and must be destroyed in place.

Mine, AR, HE, M19 (DODAC 1345-K250)

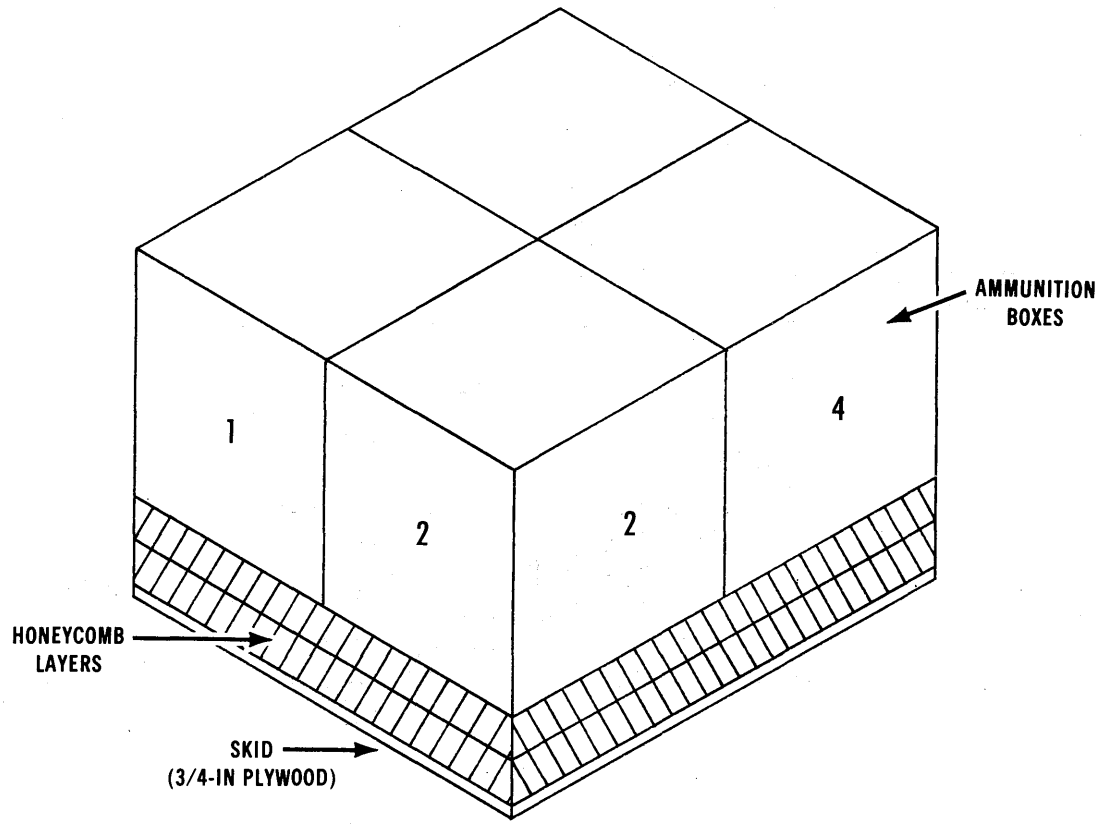


Figure 3-18

The following ammunition item is rigged in an A-7A cargo sling for low-velocity airdrop as shown in figure 3-18.

Demolition Item

Destructor, Explosive, Universal, M10 (DODAC 1375-M241)

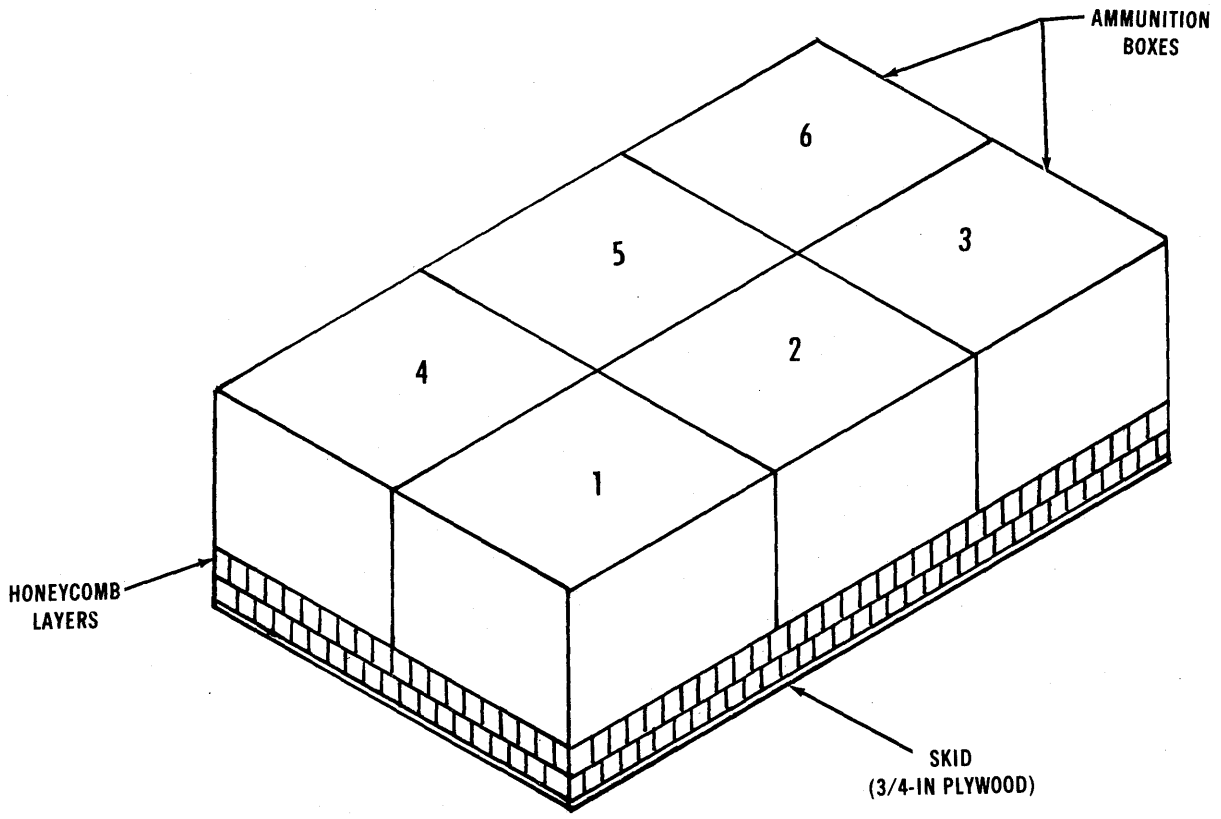


Figure 3-19

The following ammunition items are rigged in an A-7A cargo sling for low-velocity airdrop as shown in figure 3-19.

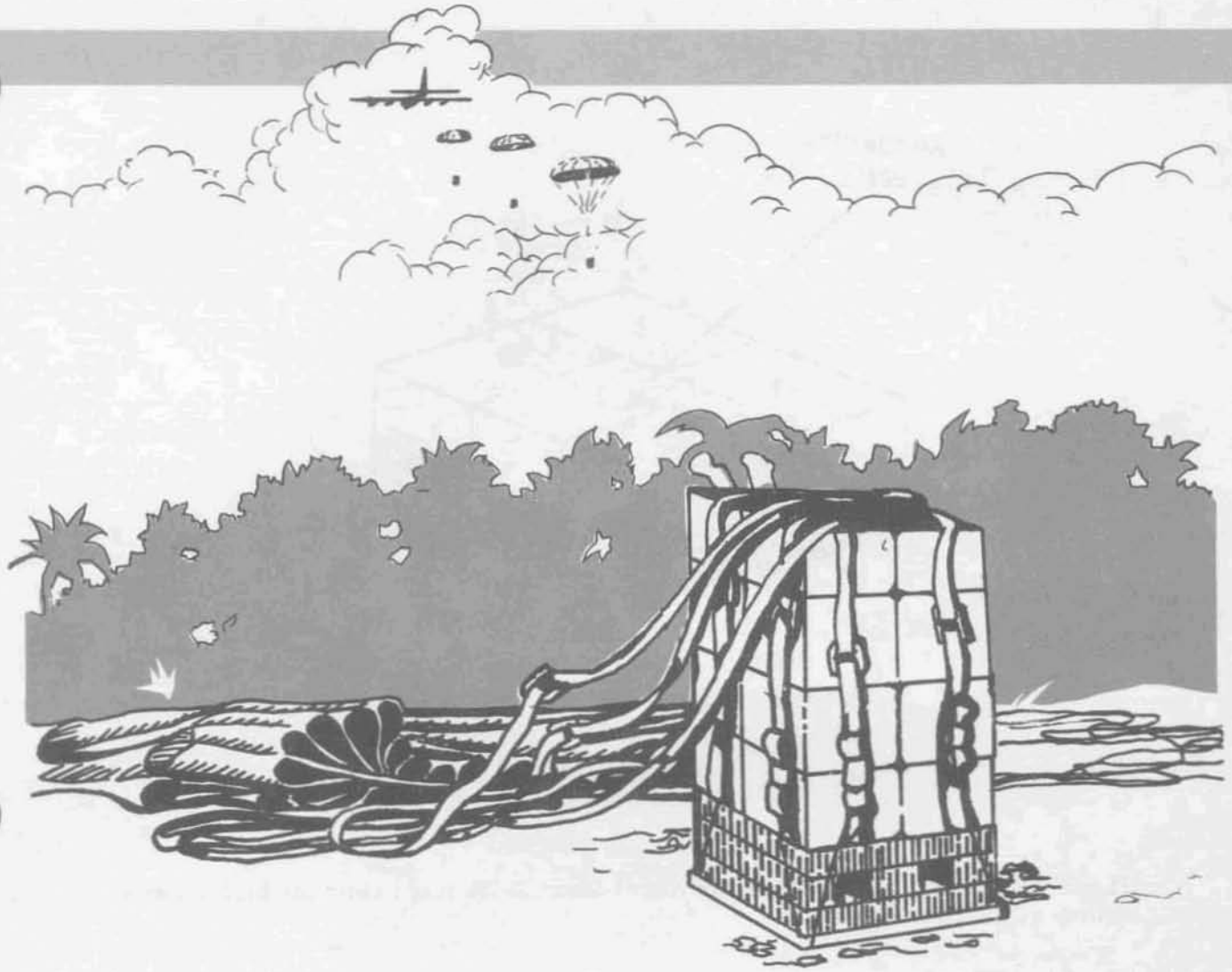
Dropping these items as a single item load may not be practical; however, they can be contained in an A-7A cargo sling with other compatible items and air-dropped. Quantity and type of items that can be rigged in an A-7A cargo sling is determined by the individual ammunition container dimensions and weight.

Fuzes

When Proximity fuzes are air-dropped, the boxed fuzes must be dropped in the "nosedown" position. If the boxes are damaged the fuzes should not be used.

Fuze, MT, M565 (DODAC 1390-N248)
Fuze, MTSQ, M500 or M500A1 (DODAC 1390-N275)
Fuze, MTSQ, M501 or M501A1 (DODAC 1390-N276)
Fuze, MTSQ, M502 or M502A1 (DODAC 1390-N277)
Fuze, MT, M564 (DODAC 1390-N278)
Fuze, MTSQ, M518 (DODAC 1390-N279)
Fuze, MTSQ, M520 (DODAC 1390-N280)
Fuze, MTSQ, M577 (DODAC 1390-N285)

Fuze, PD, M572 (DODAC 1390-N311)
Fuze, PD, M48A3 (DODAC 1390-N318)
Fuze, PD, M535 (DODAC 1390-N323)
Fuze, PD, M508 (DODAC 1390-N326)
Fuze, PD, M557 (DODAC 1390-N335)
Fuze, TSQ, M54 (DODAC 1390-N400)
Fuze, Proximity, M532 (DODAC 1390-N402)
Fuze, Proximity, M514 or M514A1 or M514B1 (DODAC 1390-N411)
Fuze, Proximity, M513A1 or M513B1 (DODAC 1390-N412)
Fuze, Proximity, M516 (DODAC 1390-N416)
Fuze, Proximity, M517 (DODAC 1390-N417)
Fuze, Proximity, M515 (DODAC 1390-N420)
Fuze, Proximity, M728 (DODAC 1390-N463)
Fuze, Proximity, M514A1 (DODAC 1390-N477)



Section II

RIGGING A-7A CARGO SLINGS FOR HIGH-VELOCITY AIRDROP

3-4. Preparing A-7A Cargo Sling Loads

Prepare the A-7A cargo sling assembly according to FM 10-501/TO 134C7-1-11.

3-5. Special Instructions

a. The ammunition loads are positioned in the A-7A cargo sling for high-velocity airdrop according to the figures listed in this section.

b. A-7A cargo sling dimension limits are listed in FM 10-501/TO 13C7-1-11 according to type of aircraft used.

c. The minimum allowable rigged weight of an A-7A cargo sling, including parachute, shall be 35 pounds per square foot, based upon the largest surface area.

d. Close and secure the A-7A cargo sling according to FM 10-501/TO 13C7-1-11.

3-6. Parachute Requirements

Select the correct size parachute(s) from Table 1-2. Attach the parachute(s) to the rigged load according to FM 10-501/TO 13C7-1-11.

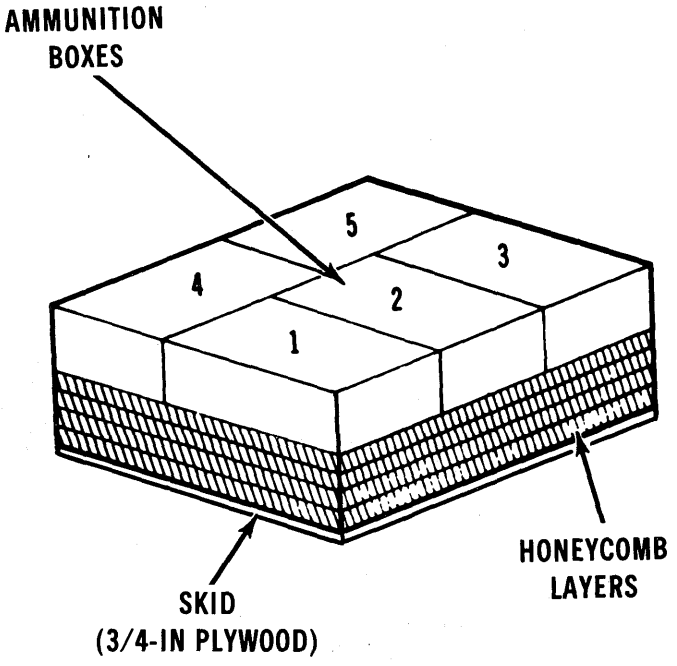


Figure 3-20

The following ammunition items are rigged in an A-7A cargo sling for high-velocity airdrop as shown in figure 3-20.

5.56-Millimeter Ammunition

Cartridge, 5.56-mm, Tracer, M196 (DODAC 1305-A068)
Cartridge, 5.56-mm, Ball, M193 (DODAC 1305-A071)

7.62-Millimeter Ammunition

Cartridge, 7.62-mm, Ball, M39 and M80 (DODAC 1305-A122)
Cartridge, 7.62-mm, Tracer, M62 (DODAC 1305-A124)
Cartridge, 7.62-mm, Ball Tracer Linked, with M13 Link, M80 (DODAC 1305-A127)
Cartridge, 7.62-mm, 5 Rd. Clip, M80 (DODAC 1305-A130)
Cartridge, 7.62-mm, Ball Tracer, Linked with M13 Link, M62 (DODAC 1305-A131)
Cartridge, 7.62-mm, Match, M118 (DODAC 1305-A136)
Cartridge, 7.62-mm, M62 Linked (DODAC 1305-A137)
Cartridge, 7.62-mm, Tracer, M62 (DODAC 1305-A140)
Cartridge, 7.62-mm, Ball, M80 Linked (DODAC 1305-A143)
Cartridge, 7.62-mm, Tracer, M62 Clipped (DODAC 1305-A145)
Cartridge, 7.62-mm, Tracer, M62 Linked (DODAC 1305-A146)

.30-Caliber Ammunition

Cartridge, Cal .30, AP API, 5-Rd. Clip, Grade R (DODAC 1305-A203)
Cartridge, Cal .30, AP API, 8-Rd. Clip, Grade R (DODAC 1305-A205)
Cartridge, Cal .30, AP API, Linked, M2, with M1 Link, Grade MG (DODAC 1305-A207)
Cartridge, Cal .30, AP API, Linked, with Tracer (DODAC 1305-A209)
Cartridge, Cal .30, Ball, M2 (DODAC 1305-A212)
Cartridge, Cal .30, Ball, M2 Clipped (DODAC 1305-A216)
Cartridge, Cal .30, Ball and Tracer, Linked (DODAC 1305-A218)
Cartridge, Cal .30, Tracer, Carton (DODAC 1305-A230)
Cartridge, Cal .30, Tracer, M1 or M25 Clipped (DODAC 1305-A234)
Cartridge, Cal .30, Tracer, M25, Linked (DODAC 1305-A236)

.32-Caliber Ammunition

Cartridge, Cal .32, Ball, Auto 71, Grain (DODAC 1305-A350)

.38-Caliber Ammunition

Cartridge, Cal .38, Special, Ball, M41 (DODAC 1305-A400)

.45-Caliber Ammunition

Cartridge, Cal .45, Ball, M1911 (DODAC 1305-A475)

.50-Caliber Ammunition

Cartridge, Cal .50, API M8 (DODAC 1305-A531)
Cartridge, Cal .50, API, M8 Linked (DODAC 1305-A533)
Cartridge, Cal .50, APT-T, M20 (DODAC 1305-A541)
Cartridge, Cal .50, APIT, M20, Linked, with M2 Link, Grade AC (DODAC 1305-A543)
Cartridge, Cal .50, APIT, M20, Linked, with M2 Link, Grade MG (DODAC 1305-A544)
Cartridge, Cal .50, Tracer, M17, Grade MG (DODAC 1305-A571)
Cartridge, Cal .50, Tracer, M17 Linked with M2 Link, Grade AC (DODAC 1305-A572)
Cartridge, Cal .50, Spotter-Tracer, M48A2 (DODAC 1305-A574)
Cartridge, Cal .50, Linked, 4 API M8, API-T M20, (DODAC 1305-A576)
Cartridge, Cal .50, Linked, 4 API M8, 1 API-T M20 (DODAC 1305-A577)
Cartridge, Cal .50, API-T M20 Linked (DODAC 1305-A585)
Cartridge, Cal .50, Linked, 4 API M8, 1 APT-T, M20 (DODAC 1305-A587)
Cartridge, Cal .50, Linked, 4 API M8, 1 API-T, M20 (DODAC 1305-A589)

60-Millimeter Ammunition

Cartridge, 60-mm, Smoke, WP, M302A1 (DODAC 1310-B630)

Grenades

Grenade, Hand, Incendiary, TH-3, AN-M14, with Fuze M201A1 (DODAC 1330-G900)

Incendiary Item

Burster, Incendiary, Field, M4 without Fuze (DODAC 1345-K010)

Signal Items

Signal, Illuminating, Ground, M195 Green Star (DODAC 1370-L305)
Signal, Illuminating, Ground, M158 Red Star (DODAC 1370-L306)
Signal, Illuminating, Ground, M159 White Star (DODAC 1370-L307)
Signal, Illuminating, Ground Parachute, M126A1 (DODAC 1370-L311)
Signal, Illuminating, Parachute, M127A1, White Star (DODAC 1370-L312)
Signal, Illuminating, GRD, Cluster, M125A1 (DODAC 1370-L314)
Signal, Smoke, Parachute, M129A1, Red (DODAC 1370-L323)
Signal, Smoke, Parachute, M128A1, Green (DODAC 3170-L324)

Demolition Items

Charge, Demolition Block, Comp C4 1 1/4-lb, M112 (DODAC 1375-M023)
Charge, Demolition, Block, M3 (DODAC 1375-M037)
Firing Device, Demolition, M3 Pull Release Type (DODAC 1375-M629)
Charge, Assembly, Demolition, M37 (DODAC 1375-M756)

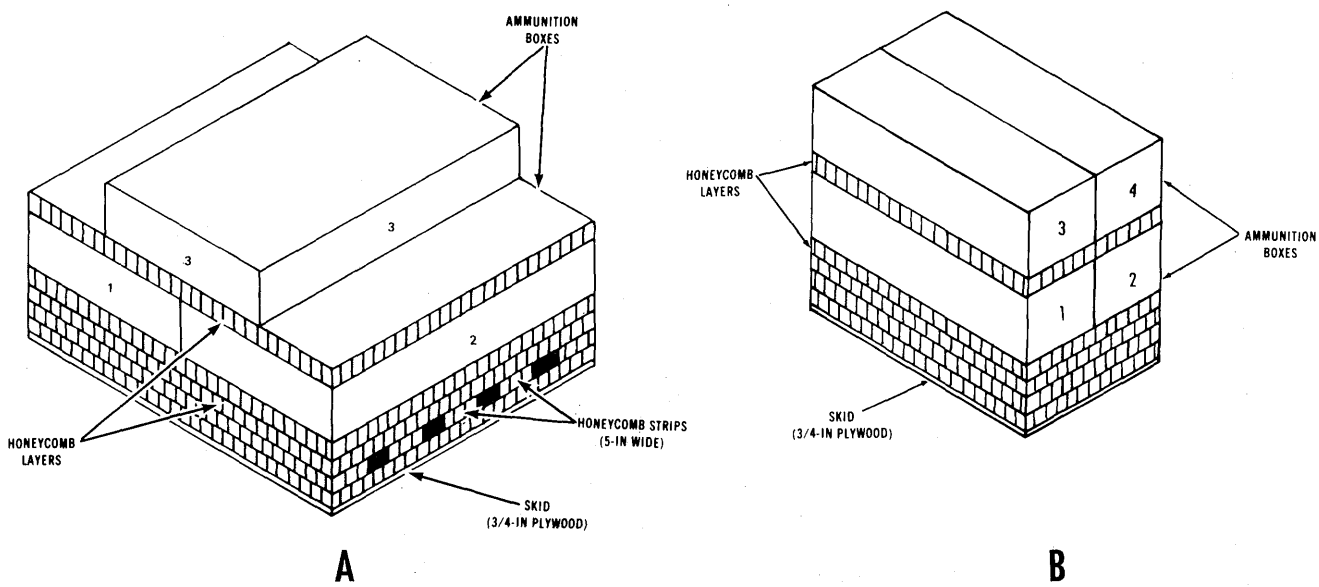


Figure 3-21

The following ammunition items are rigged in an A-7A cargo sling for high-velocity airdrop as shown in figure 3-21.

7.62-Millimeter Ammunition

Cartridge, 7.62-mm, Linked, 9-Ball M80 1TR, XM276 (DODAC 1305-A163)
Cartridge, 7.62-mm, Linked, 9-Ball M80, 1TR, M62 (DODAC 1305-A165)

.30-Caliber Ammunition

Cartridge, Cal .30, AP API, CTN, Grade R (DODAC 1305-A201)
Cartridge, Cal .30, AP, API, CTN, Grade MG (DODAC 1305-A202)
Cartridge, Cal .30, Ball, M2 Clipped (DODAC 1305-A214)
Cartridge, Cal .30, Tracer, M1, Clipped (DODAC 1305-A232)

4.2-Inch Ammunition

If parachute malfunctions, 4.2-inch ammunition may detonate on ground impact and contaminate the drop zone. All damaged rounds and containers must be considered dangerous and must be destroyed in place.

Cartridge, 4.2-in, HE, M329A1 (DODAC 1315-C704)
Cartridge, 4.2-in, HE, M329A1 (DODAC 1315-C705)
Cartridge, 4.2-in, Illuminating, M335A2 (DODAC 1315-C706)
Cartridge, 4.2-in, Smoke, WP, M328A1 (DODAC 1315-C708)

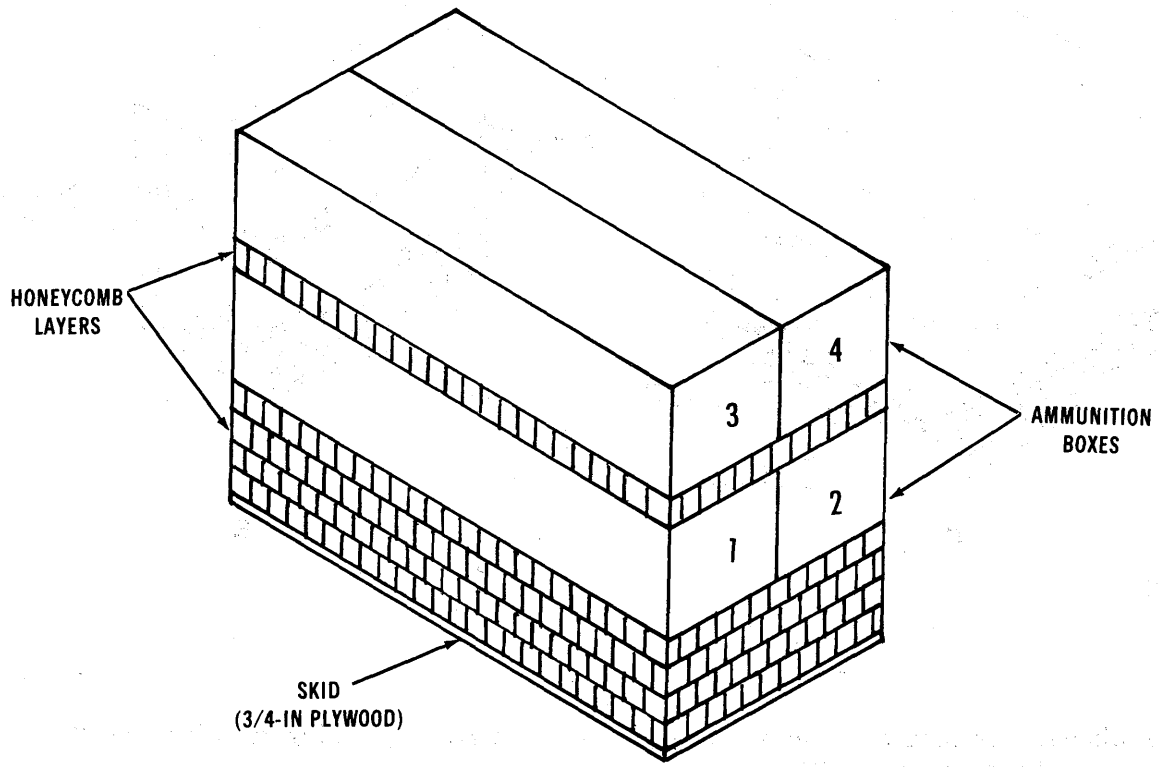


Figure 3-22

The following ammunition items are rigged in an A-7A cargo sling for high-velocity airdrop as shown in figure 3-22.

.50-Caliber Ammunition

Cartridge, Cal .50, API, M8 Carton, Grade MG or API-T, M20 (DODAC 1305-A532)
Cartridge, Cal .50, API, M8 Linked, with M2, Grade MG (DODAC 1305-A534)

40-Millimeter Ammunition

Cartridge, 40-mm, HEDP M33 (DODAC 1310-B470)
Cartridge, 40-mm, HEI-T, SD, M3 (DODAC 1310-B559)

81-Millimeter Ammunition

Caution must be used after airdrop of 81-mm ammunition since possible detonation and drop zone contamination may occur.

Cartridge, 81-mm, Illuminating, M301A3 (DODAC 1315-C226)
Cartridge, 81-mm, HE, M374A2 (DODAC 1315-C236)
Cartridge, 81-mm, HE, M374A2 with Fuze M524A5 (DODAC 1315-C256)
Cartridge, 81-mm, HE, M374A2 with Fuze M524A6 (DODAC 1315-C256)
Cartridge, 81-mm, HE, M374A2 with Fuze M526 (DODAC 1315-C256)
Cartridge, 81-mm, HE, M374A2 with Fuze M567 (DODAC 1315-C256)
Cartridge, 81-mm, HE, M374A2 with Fuze M716 (DODAC 1315-C256)
Cartridge, 81-mm, Smoke, WP, M375A2 with Fuze PD 524A6 (DODAC 1315-C276)
Cartridge, 81-mm, Smoke, WP, M375A2 with Fuze M526 (DODAC 1315-C276)
Cartridge, 81-mm, Smoke, WP, M375A2 without Fuze (DODAC 1315-C276)

90-Millimeter Ammunition

90-mm ammunition will contaminate the drop zone in the event of a parachute malfunction.

Cartridge, 90-mm, HEP-T, T142E3 (DODAC 1315-C292)
• Cartridge, 90-mm, HEAT, M431 (DODAC 1315-C294)

Mines

M26 mine may detonate on ground impact if parachute malfunctions. All damaged mines and containers must be considered dangerous and must be destroyed in place.

Mine, AP, M26 (DODAC 1345-K146)
Mine, Antitank, HE, M21 Heavy with Fuze Combination M607 (DODAC 1345-K181)

Signal Items

Signal, Illuminating, A/C, Single Star, AN-43A2, Red (DODAC 1370-L231)
Signal, Illuminating, A/C, Single Star, AN-M45A2, Green (DODAC 1370-L233)

Demolition Items

Charge, Demolition, Block, 1/4-lb TNT (DODAC 1375-M030)
Charge, Demolition, Roll Type, XM-186 (DODAC 1375-M060)
Cap, Blasting, Special Non-Electric, M7 (DODAC 1375-M131)
Dynamite, Military, M1 (DODAC 1375-M591)
Firing Device, Demolition, M1, Pull Type (DODAC 1375-M630)

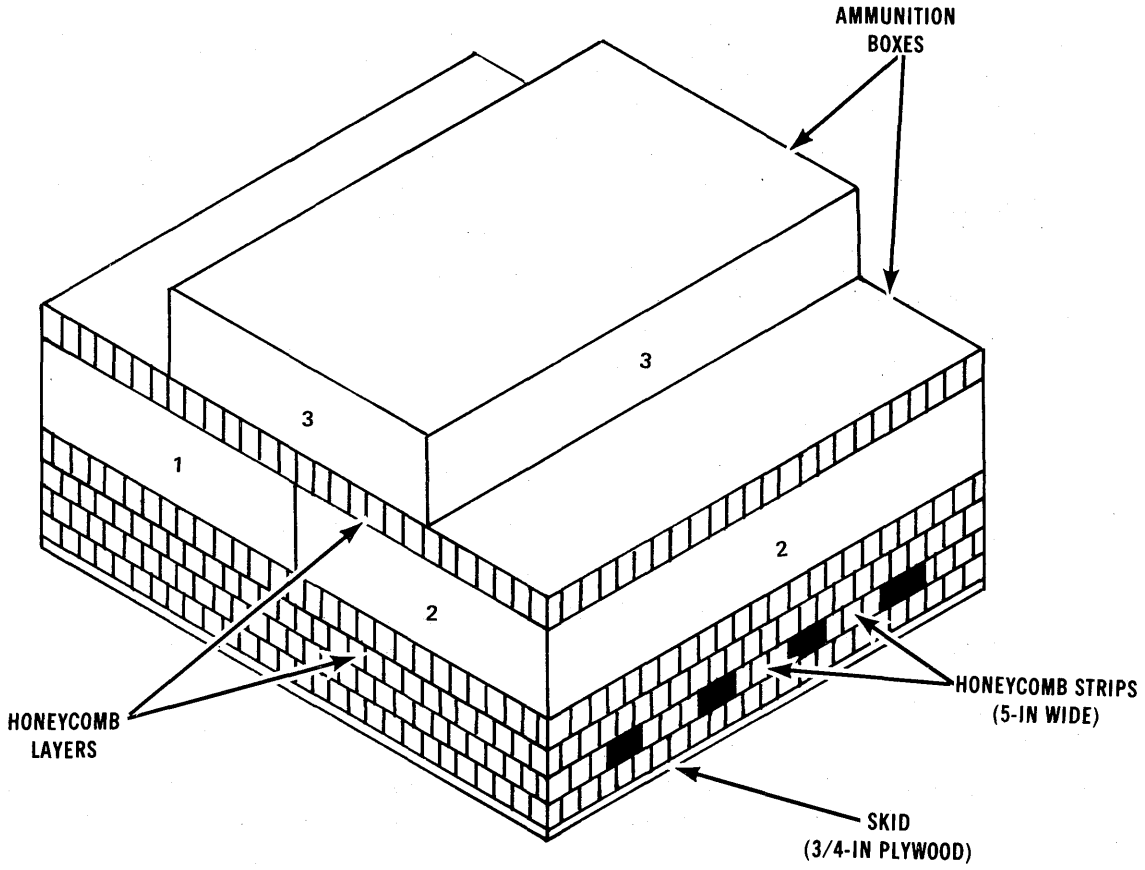


Figure 3-23

The following ammunition items are rigged in an A-7A cargo sling for high-velocity airdrop as shown in figure 3-23.

.50-Caliber Ammunition

Cartridge, Cal .50, APIT, M20, Carton, Grade MG (DODAC 1305-A542)

40-Millimeter Ammunition

Cartridge, 40-mm, AP-T, M81 (DODAC 1310-B552)
Cartridge, 40-mm, HE-T, SD, M3 MK11, MK2 (DODAC 1310-B562)

90-Millimeter Ammunition

90-mm ammunition will contaminate the drop zone if parachute malfunctions.

Cartridge, 90-mm, WP, M313C (DODAC 1315-C258)
Cartridge, 90-mm, APC-T, M82 (DODAC 1315-C260)
Cartridge, 90-mm, HE, M71 (DODAC 1315-C265)
Cartridge, 90-mm, HE, M71 (DODAC 1315-C266)
Cartridge, 90-mm, HE, M71 (DODAC 1315-C267)
Cartridge, 90-mm, Smoke, WP, M313 (DODAC 1315-C273)
Cartridge, 90-mm, HE-T M71A1 with Fuze PD, M557 (DODAC 1315-C280)
Cartridge, 90-mm, AP-T, M318 or M318A1 (DODAC 1315-C285)
Cartridge, 90-mm, Canister, M377 (DODAC 1315-C601)

105-Millimeter Ammunition

Cartridge, 105-mm, HE, M1 (DODAC 1315-C443)
Cartridge, 105-mm, HE, M1 (DODAC 1315-C444)
Cartridge, 105-mm, HE, M1 (DODAC 1315-C445)
Cartridge, 105-mm, HEP-T, M327 (DODAC 1315-C448)
Cartridge, 105-mm, Illuminating, M314A3 (DODAC 1315-C449)
Cartridge, 105-mm, Smoke, HC, BE, M84, or M84A1 (DODAC 1315-C452)
Cartridge, 105-mm, Smoke, WP, M60 (DODAC 1315-C454)
Cartridge, 105-mm, HE, M444 (DODAC 1315-C462)
Cartridge, 105-mm, HE, XM548E1 (DODAC 1315-C463)
Cartridge, 105-mm, Tactical, CS, M629 (DODAC 1315-C468)
Cartridge, 105-mm, Smoke, WP, M60 (DODAC 1315-C477)
Cartridge, 105-mm, APDS-T, M728 (DODAC 1315-C494)
Cartridge, 105-mm, APDS-T, M392A2 (DODAC 1315-C505)
Cartridge, 105-mm, HEAT-T, M456A1E2 (DODAC 1315-C508)
Cartridge, 105-mm, TP-T, M490 (DODAC 1215-C511)
Cartridge, 105-mm, Smoke, WP-T, M416, with Fuze BD M534A1 (DODAC 1315-C512)
Cartridge, 105-mm, Smoke, WP-T, M416, with Fuze BD M534A1, Steel Case (DODAC 1315-C512)
Cartridge, 105-mm, APERS-T, M546, with Fuze MT, M563 (DODAC 1315-C513)
Cartridge, 105-mm, HEP-T M393A2 (DODAC 1315-C518)
Cartridge, 105-mm, APER-T, M494 with Fuze M571 (DODAC 1315-C519)

106-Millimeter Ammunition

Cartridge, 106-mm, HEAT, M344A1 (DODAC 1315-C650)
Cartridge, 106-mm, HEP-T, M346A1 (DODAC 1315-C651)
Cartridge, 106-mm, APERS-T M581 (DODAC 1315-C660)

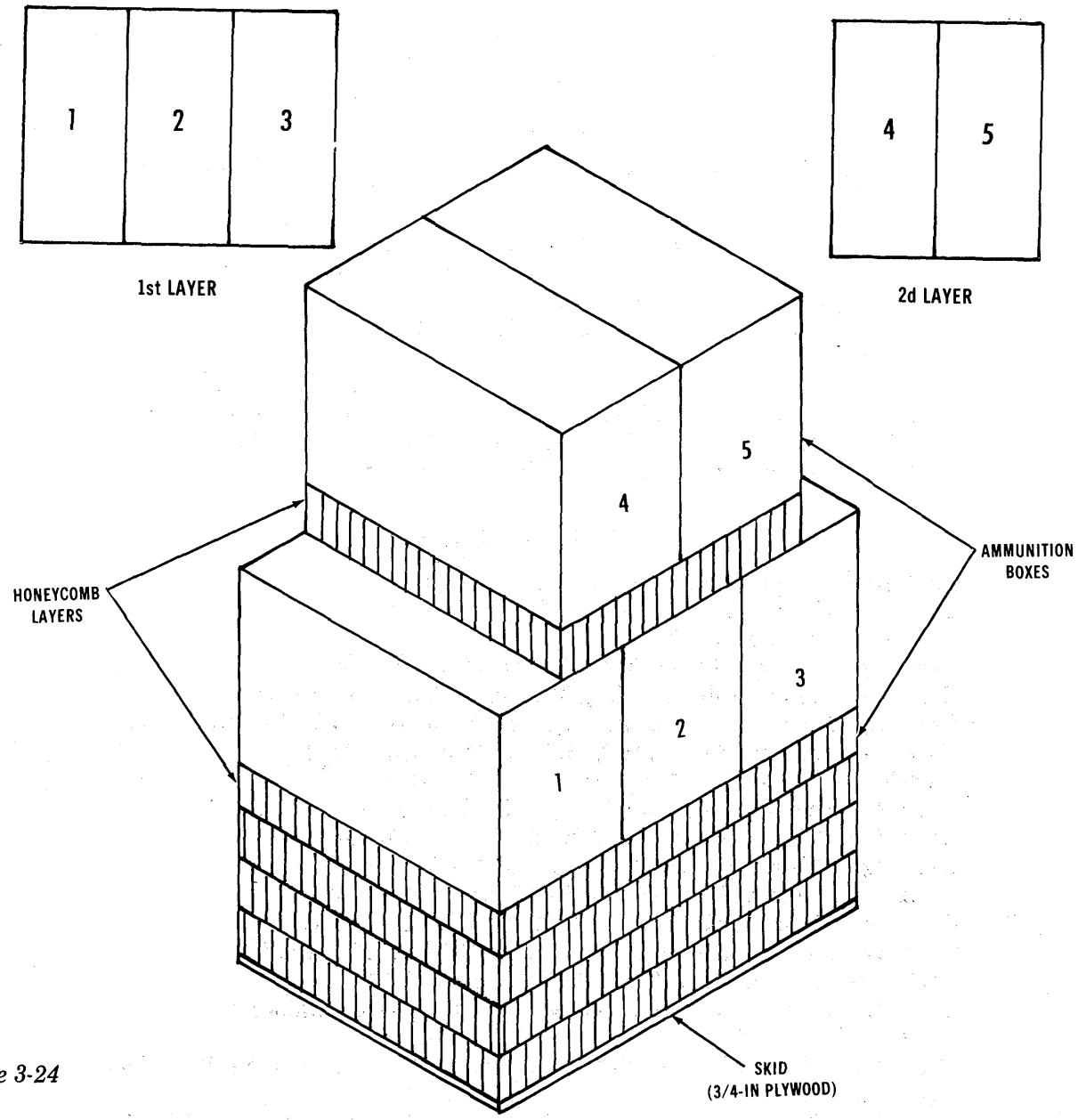


Figure 3-24

The following ammunition items are rigged in an A-7A cargo sling for high-velocity airdrop as shown in figure 3-24.

20-Millimeter Ammunition

Cartridge, 20-mm, Linked 4HEI/TP-T (DODAC 1305-A653)
Cartridge, 20-mm, Linked 7HEI, M56A3-1, XM220 (DODAC 1305-A655)
Cartridge, 20-mm, Linked HEAT-SD, M246 (DODAC 1305-A792)

Demolition Items

Charge, Demolition, Block 1/2-lb TNT (DODAC 1375-M031)
Charge, Demolition, Block 1-lb TNT (DODAC 1375-M032)

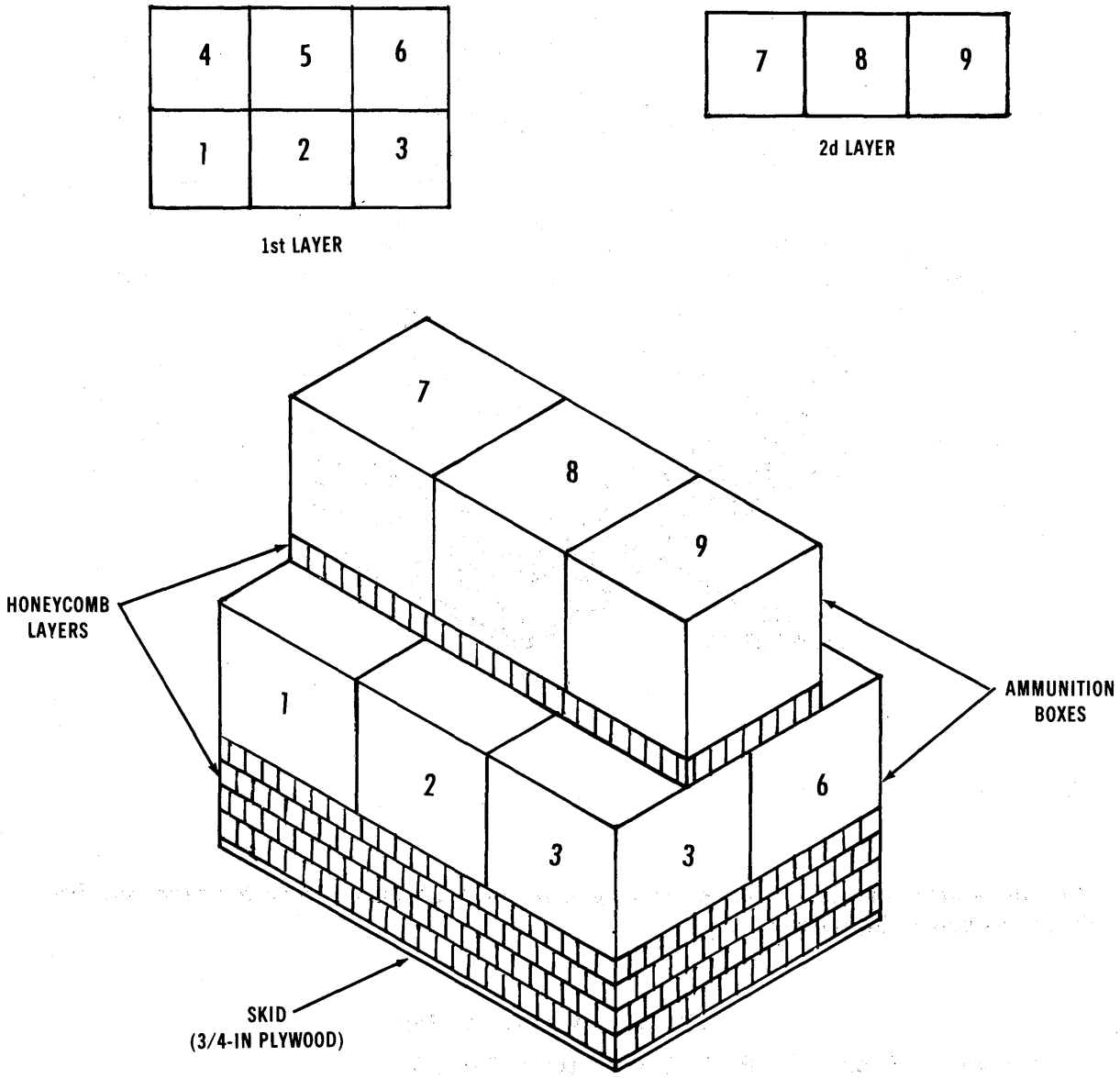


Figure 3-25

The following ammunition item is rigged in an A-7A cargo sling for high-velocity airdrop as shown in figure 3-25.

40-Millimeter Ammunition

Cartridge, 40-mm, White Star, Parachute, M583A1 (DODAC 1310-B535)

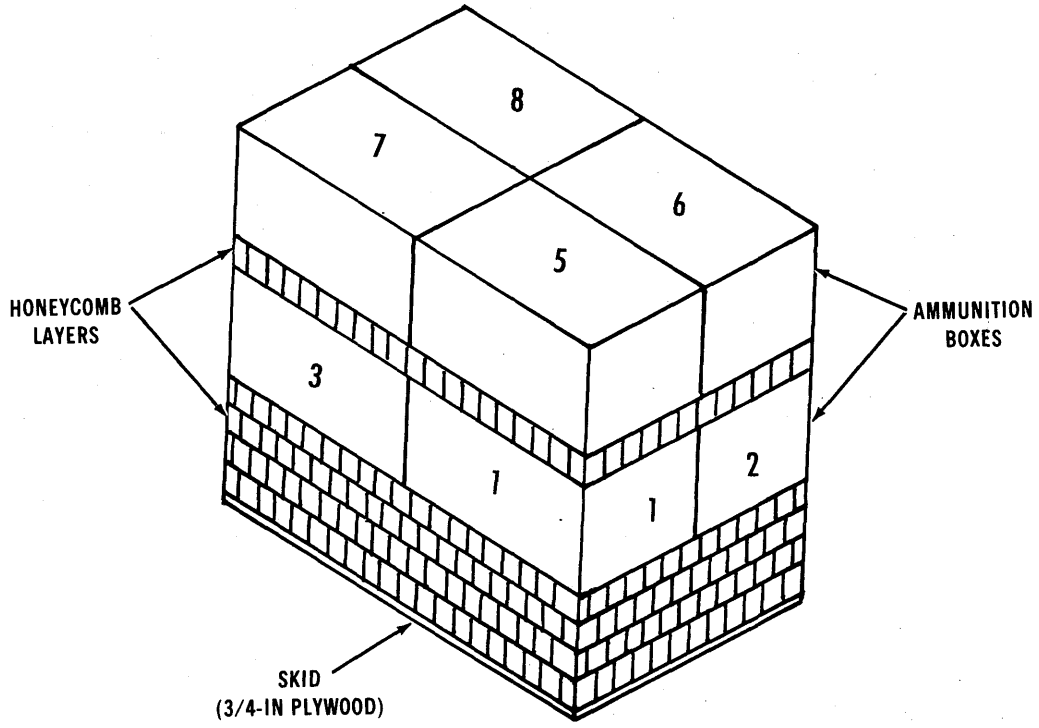


Figure 3-26

The following ammunition items are rigged in an A-7A cargo sling for high-velocity airdrop as shown in figure 3-26.

40-Millimeter Ammunition

Cartridge, 40-mm, HEDP, M433 (DODAC 1310-B546)

60-Millimeter Ammunition

Cartridge, 60-mm, HE, M49A4 (DODAC 1310-B632)

90-Millimeter Ammunition

90-mm ammunition will contaminate the drop zone if parachute malfunctions.

Cartridge, 90-mm, Canister, Antiper, M590 (DODAC 1315-C410)

Grenades

If parachute malfunctions, smoke grenades may detonate on ground impact and could contaminate the drop zone.

Cartridge, Grenade, Rifle, NATO, 7.62-mm, M64 (DODAC 1330-G839)
Grenade, Hand Frag, M67 with Fuze (DODAC 1330-G881)
Grenade, Hand Frag, M33 (DODAC 1330-G888)
Grenade, Hand Offensive, MK3A2, with Fuze (DODAC 1330-G911)
Grenade, Hand, Smoke, HC, ABC, AN-M18, with Fuze (DODAC 1330-G930)
Grenade, Hand, Green, Smoke, M18, with Fuze (DODAC 1330-G940)
Grenade, Hand, Yellow Smoke, M18, with Fuze (DODAC 1330-G945)
Grenade, Hand, Red Smoke, M18, with Fuze (DODAC 1330-G950)
Grenade, Hand, Violet Smoke, M18, with Fuze, M201A1 (DODAC 1330-G955)
Grenade, Hand, Riot Control, M7A3, with Fuze (DODAC 1330-G963)

Flare and Signal Item

The surface trip flare, M49A1 may burn on ground impact if parachute malfunctions. The surface trip flares will always be rigged in separate airdrop containers and will not be mixed with other explosive or ammunition items.

Flare, Surface, M49A1, Trip (DODAC 1370-L495)

Demolition Items

Ignition cylinders, flamethrower, M1 will detonate on ground impact if parachute malfunctions. These ignitors do not contain explosives but will burn, producing an intense heat.

Charge, Demolition, Block PETN, M118 (DODAC 1375-M024)
Firing Device, Demolition, M5, Pressure Release Type (DODAC 1375-M627)
Charge, Assembly, Demolition, M183 (DODAC 1375-M757)
Ignitor Time Blasting Fuze, M2 or M60, Weatherproof (DODAC 1375-M766)
Ignition Cylinder, Portable Flamethrower, M1, or Type II
(DODAC 1375-M680)

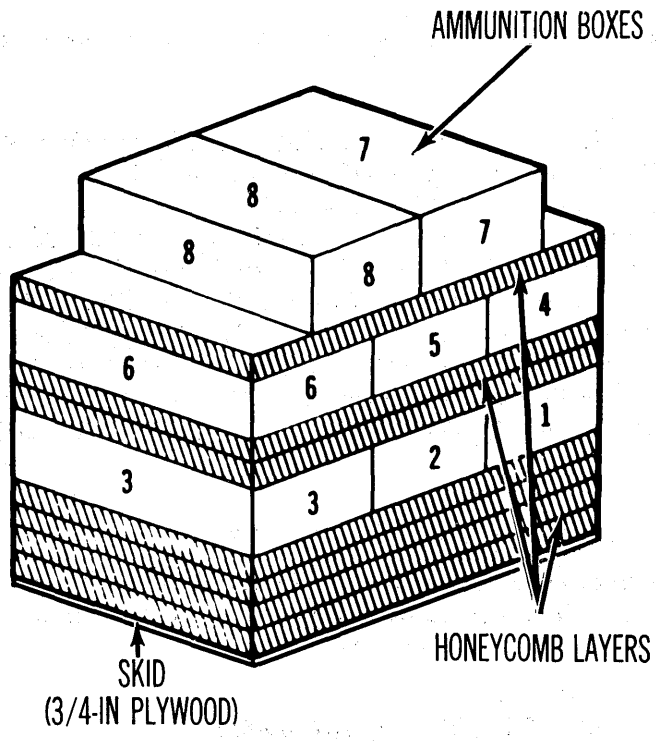


Figure 3-27

The following ammunition items are rigged in an A-7A cargo sling for high-velocity airdrop as shown in figure 3-27.

81-Millimeter Ammunition

Caution must be used after airdrop of 81-mm ammunition since possible detonation and drop zone contamination may occur.

Cartridge, 81-mm, HE, M362 (DODAC 1315-C222)
Cartridge, 81-mm, HE, M362 (DODAC 1315-C223)
Cartridge, 81-mm, HE, M43A1 (DODAC 1315-C225)
Cartridge, 81-mm, Smoke, WP, M57 (DODAC 1315-C230)

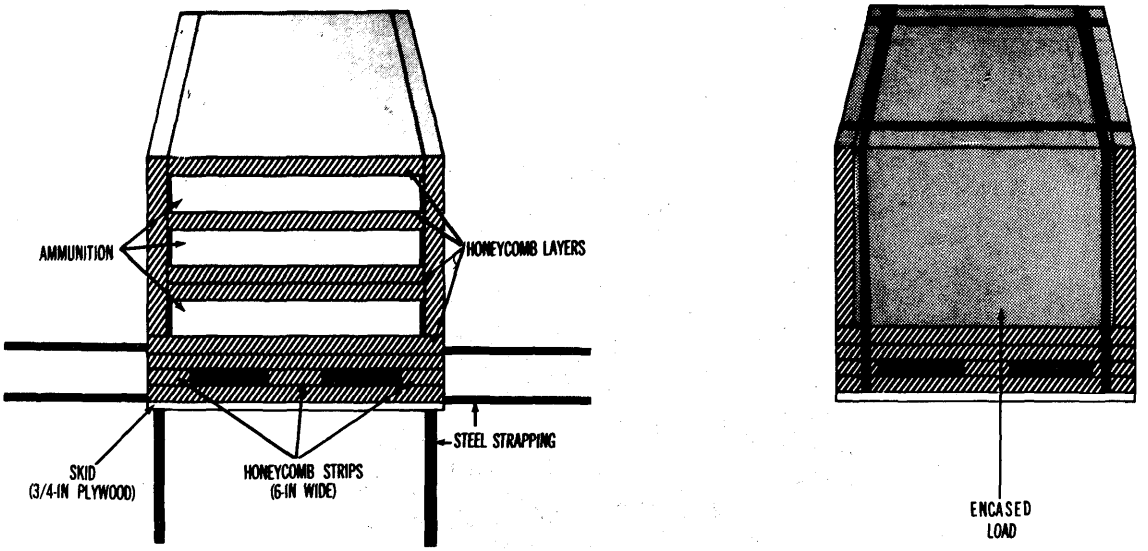
90-Millimeter Ammunition

90-mm ammunition will contaminate the drop zone if parachute malfunctions.

Cartridge, 90-mm, HEAT, M371 (DODAC 1315-C282)

Demolition Item

Charge, Demolition, Block, 40-lb Cratering Ammonia Nitrate
DODAC 1375-M039



A. Ammunition boxes placed.

B. Load encased.

Figure 3-28

The following ammunition items are rigged in an A-7A cargo sling for high-velocity airdrop as shown in figure 3-28.

90-Millimeter Ammunition (Rigging Fiber Containers)

90-millimeter ammunition will contaminate the drop zone if parachute malfunctions.

Cartridge, 90-mm, HEAT, M371 (DODAC 1315-C282)
Cartridge, 90-mm, Canister, Antiper, M590 (DODAC 1315-C410)

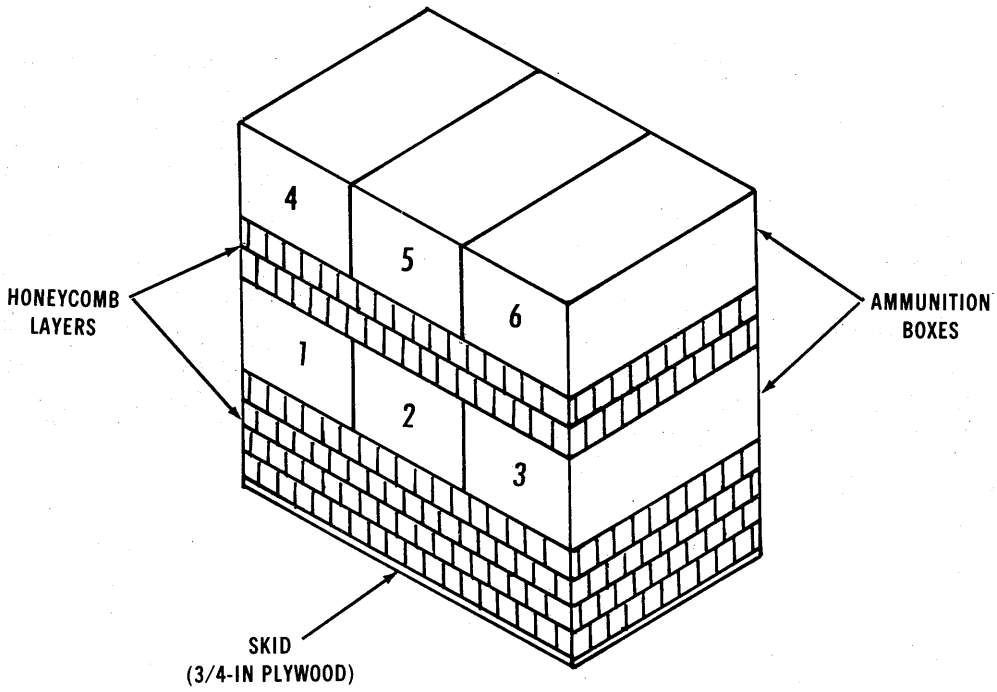


Figure 3-29

The following ammunition items are rigged in an A-7A cargo sling for high-velocity airdrop as shown in figure 3-29.

152-Millimeter Ammunition

Cartridge, 152-mm, TP-T, XM411E3 (DODAC 1320-D380)

Demolition Items

Charge, Demolition, Chain, M1, Eight 2 1/2-lb Telrytol Charge Strung on Detonating Cord (DODAC 1375-M035)
Charge, Demolition, Block, M2 (DODAC 1375-M036)
Charge, Demolition, Block, M541 (DODAC 1375-M038)
Charge, Demolition, Shaped, HJE, 15-lb, M2A3 (DODAC 1375-M420)
Charge, Demolition, Shaped, 40-lb, M3 (DODAC 1375-M421)
Detonator, Percussion, M1A2, 15-sec Delay (DODAC 1375-M450)

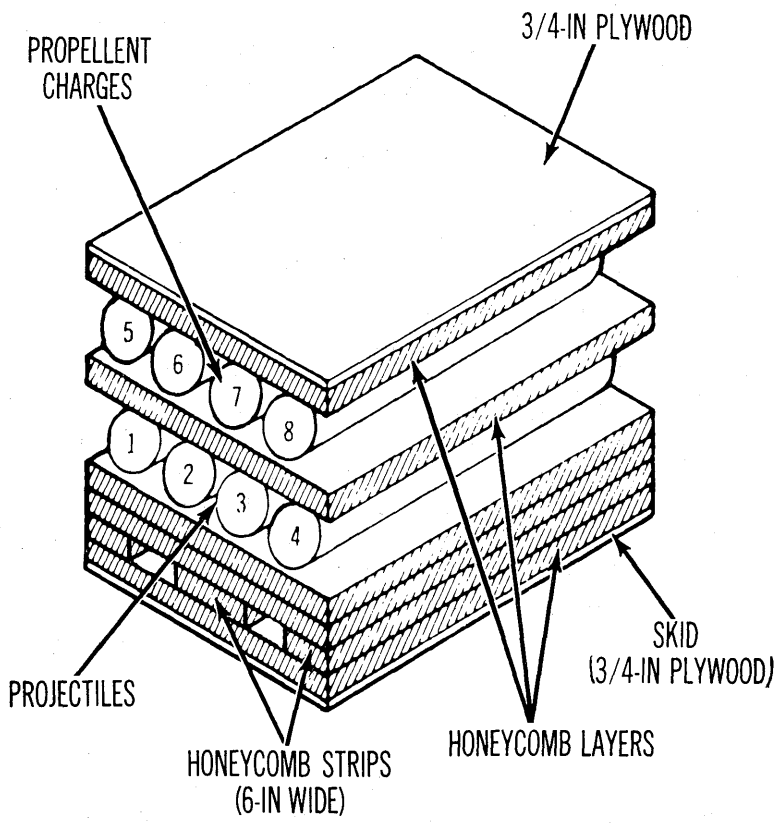


Figure 3-30

The following ammunition items are rigged in an A-7A cargo sling for high-velocity airdrop as shown in figure 3-30.

105-Millimeter Ammunition

(Rigging Fiber Containers)

Cartridge, 105-mm, HEAT-T, M456A1E2 (DODAC 1315-C508)
Cartridge, 105-mm, TP-T, M490 (DODAC 1315-C511)

152-Millimeter Ammunition
(Rigging Fiber Containers)

Cartridge, 152-mm, HEAT-MP, XM409E6 (DODAC 1320-D381)
Cartridge, 152-mm, Canister, M625A1 (DODAC 1320-D390)

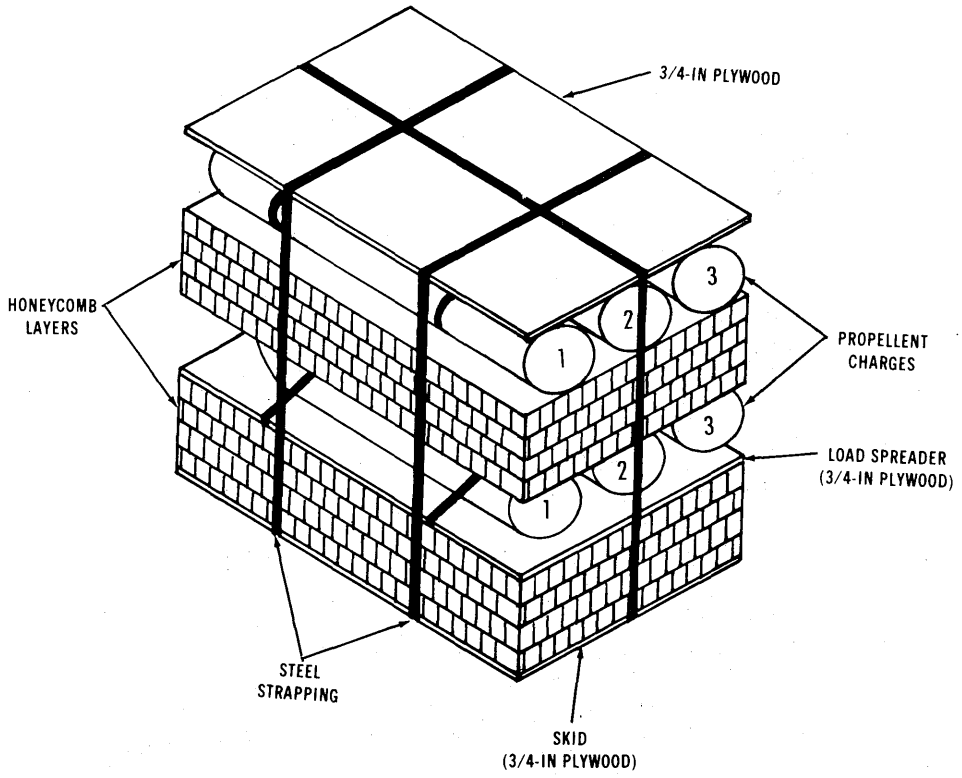


Figure 3-31

The following ammunition items are rigged in an A-7A cargo sling for high-velocity airdrop as shown in figure 3-31.

155-Millimeter Ammunition

Charge, Propelling, 155-mm, M19 (DODAC 1320-D480)
Projectile, 155-mm, Gas, Persistent, HD, M104 (DODAC 1320-D484)
Projectile, 155-mm, HE, M101 (DODAC 1320-D485)
Projectile, 155-mm, Smoke, WP, M104 (DODAC 1320-D487)
Reducer, Flash, Propelling Charge, M1 (DODAC 1320-D490)
Projectile, 155-mm, HE, ADAM M692 (DODAC 1320-D501)
Projectile, 155-mm, HE, ADAM M731 (DODAC 1320-D502)
Projectile, 155-mm, Illuminating, M485A2 (DODAC 1320-D505)
Projectile, 105-mm, HC, HE, M116E2 (DODAC 1320-D506)
*Charge, Propelling, 155-mm, M203 (DODAC 1320-D532)
Charge, Propelling, 155-mm, M3 (DODAC 1320-D540)
Charge, Propelling, 155-mm, M4A1 (DODAC 1320-D541)
Projectile, 155-mm, HE, M107 (DODAC 1320-D544)
Projectile, 155-mm, Smoke, WP, M110 (DODAC 1320-D550)
Projectile, 155-mm, Smoke, HC, BE, M116 (DODAC 1320-D548)
Reducer, Flash, Propelling Charge, M2 (DODAC 1320-D552)
Projectile, 155-mm, M449A1 (DODAC 1320-D562)
Projectile, 155-mm, HE, M483A1 (DODAC 1320-D563)
Projectile, 155-mm, HE, RA, M549 (DODAC 1320-D579)

Note: Required fuzes are rigged with load.

***The old or new type propelling charge container may be rigged.**

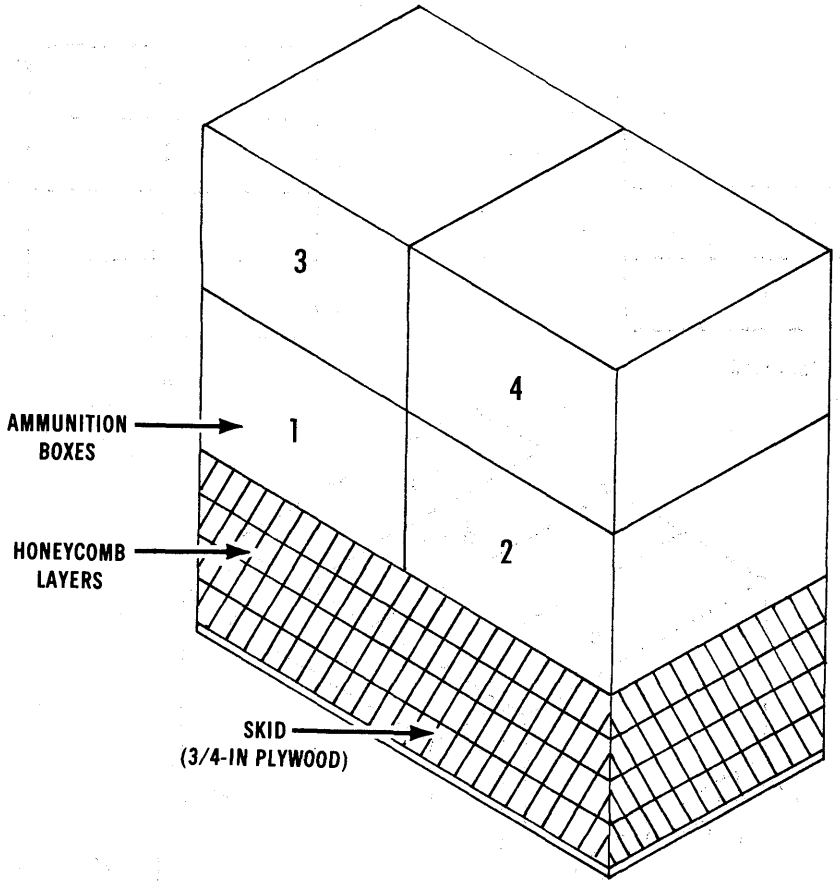


Figure 3-32

The following ammunition items are rigged in an A-7A cargo sling for high-velocity method of airdrop as shown in figure 3-32.

Grenades

Grenade, Hand, Fragmentation, M26A2 (DODAC 1330-G889)
Grenade, Hand, Fragmentation, M26 or M26A1 (DODAC 1330-G890)

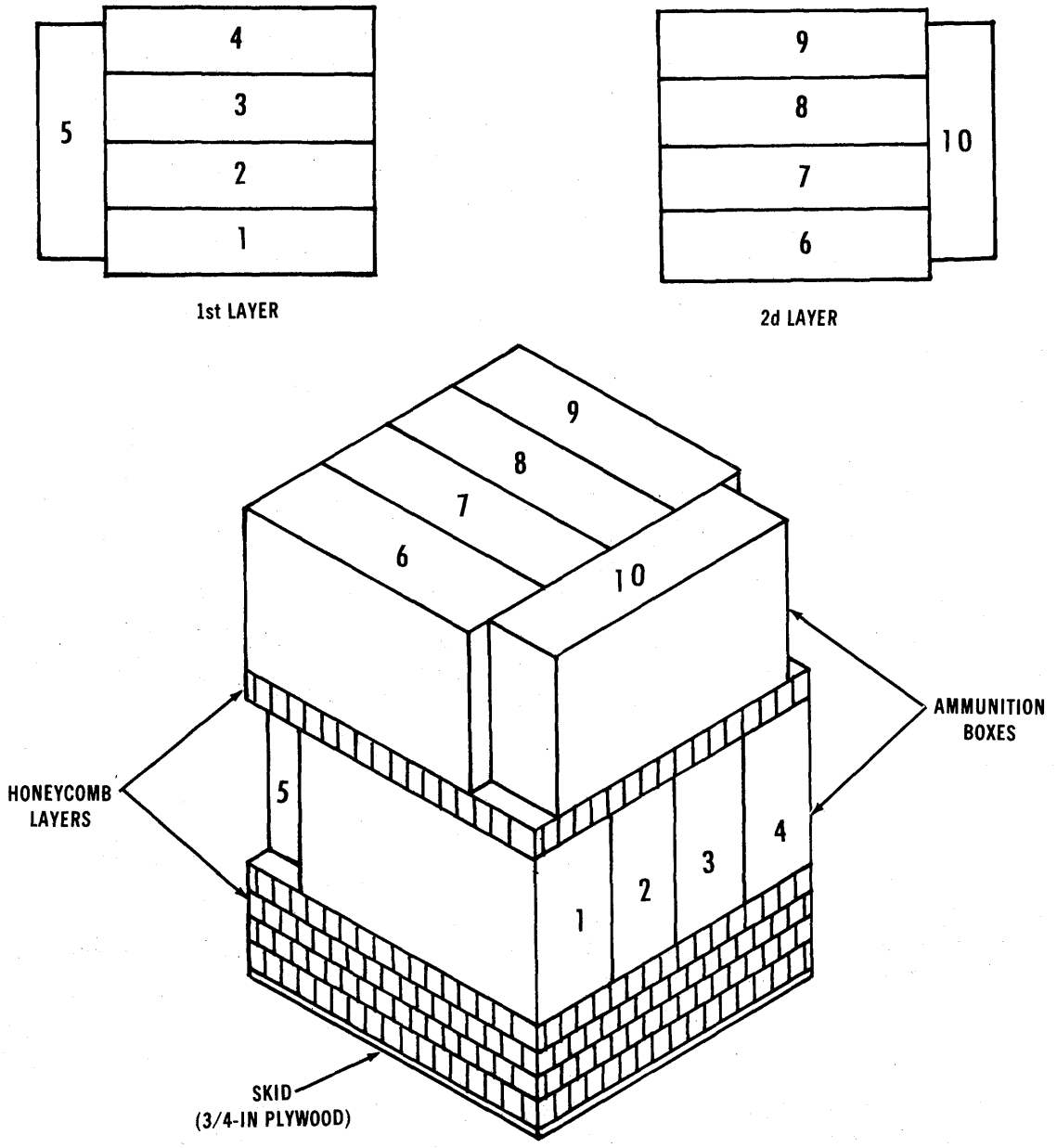


Figure 3-33

The following ammunition item is rigged in an A-7A cargo sling for high-velocity airdrop as shown in figure 3-33.

Antipersonnel and Antitank Mines

Activator, Mine, AR, M1 (DODAC 1345-K001)

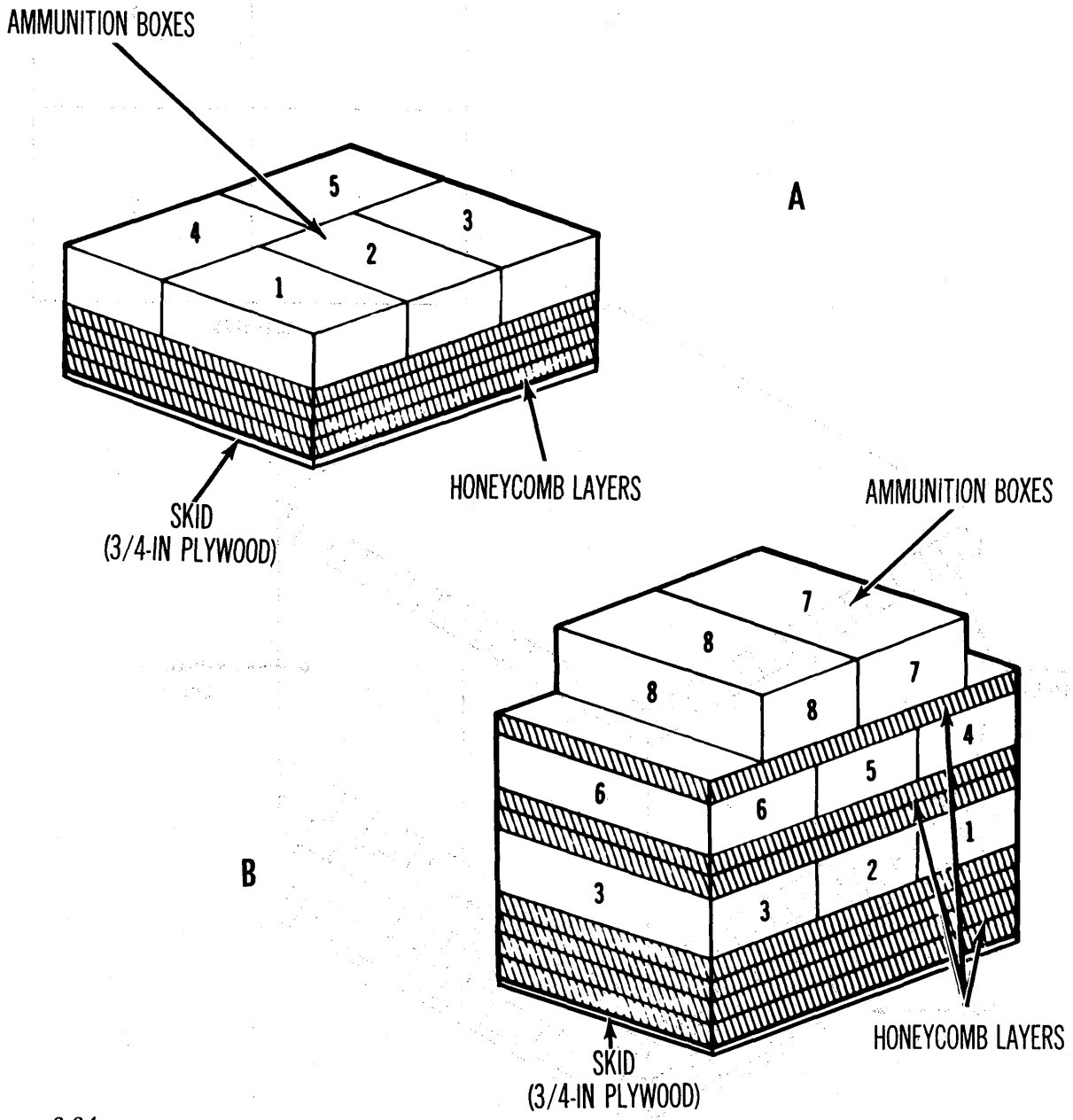


Figure 3-34

The following ammunition item is rigged in an A-7A cargo sling for high-velocity airdrop as shown in A or B of figure 3-34.

Mine

Mine, Antipersonnel, M16A1, with Fuze M605 (DODAC 1345-K092)

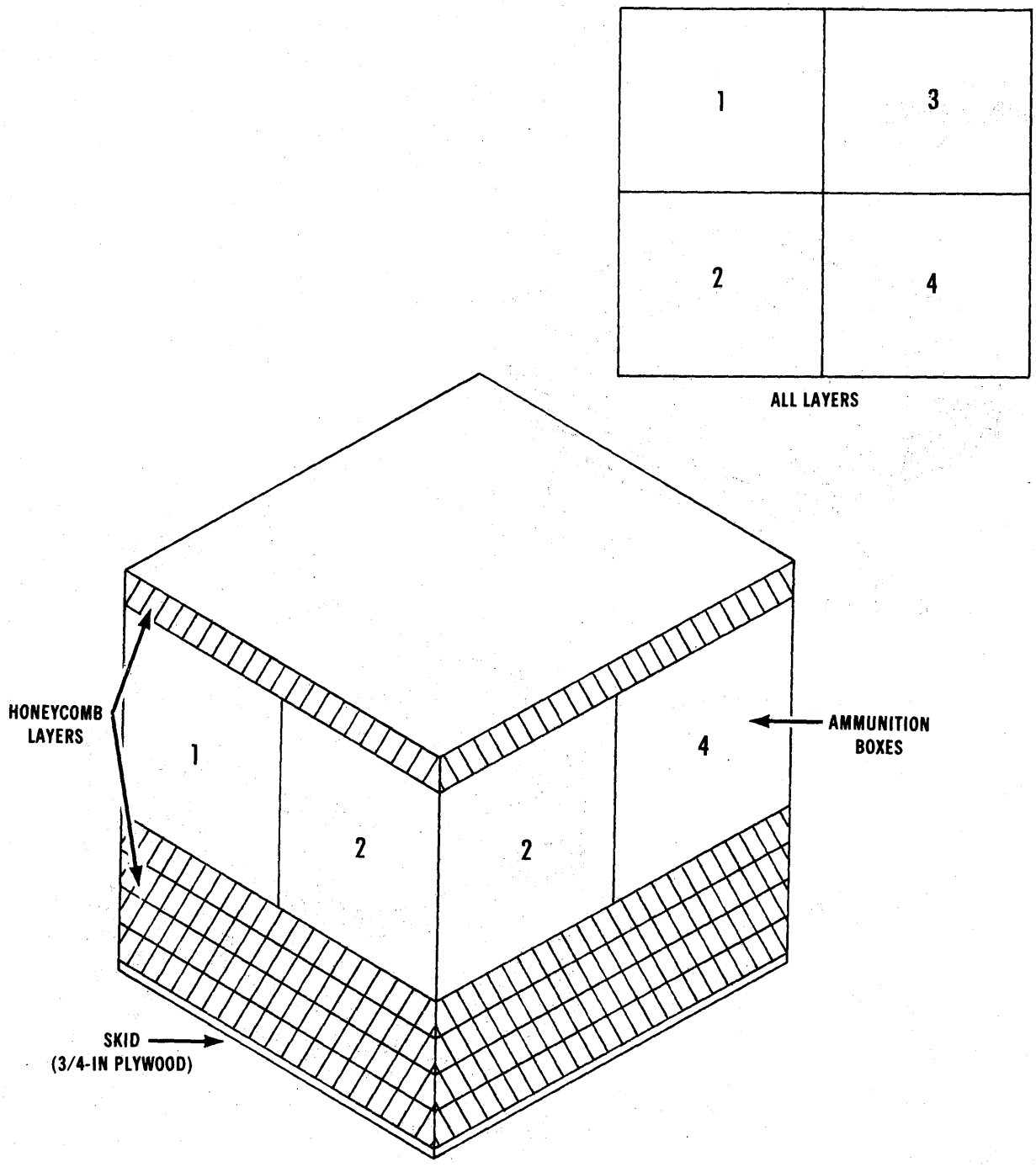


Figure 3-35

The following ammunition item is rigged in an A-7A cargo sling for high-velocity airdrop as shown in figure 3-35.

Demolition Item

Destructor, Explosive, Universal, M10 (DODAC 1375-M241)

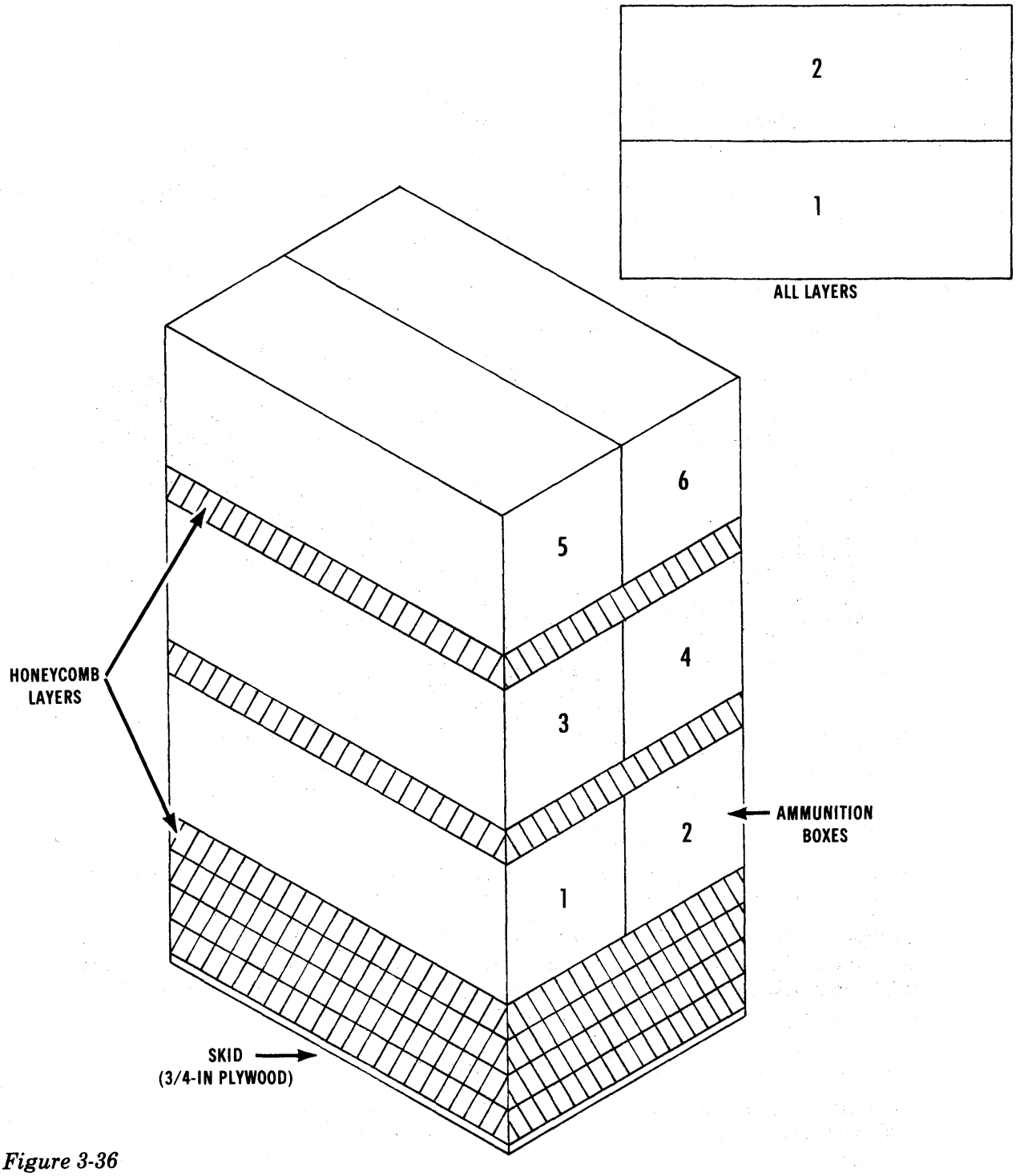


Figure 3-36

The following ammunition items are rigged in an A-7A cargo sling for high-velocity airdrop as shown in figure 3-36.

Demolition Items

Cord, detonating, reinforced pliofilm/wrapped, waterproof, Type I (DODAC 1375-M456)
Firing Device, demolition, M1A1, pressure type, (DODAC 1375-M626)

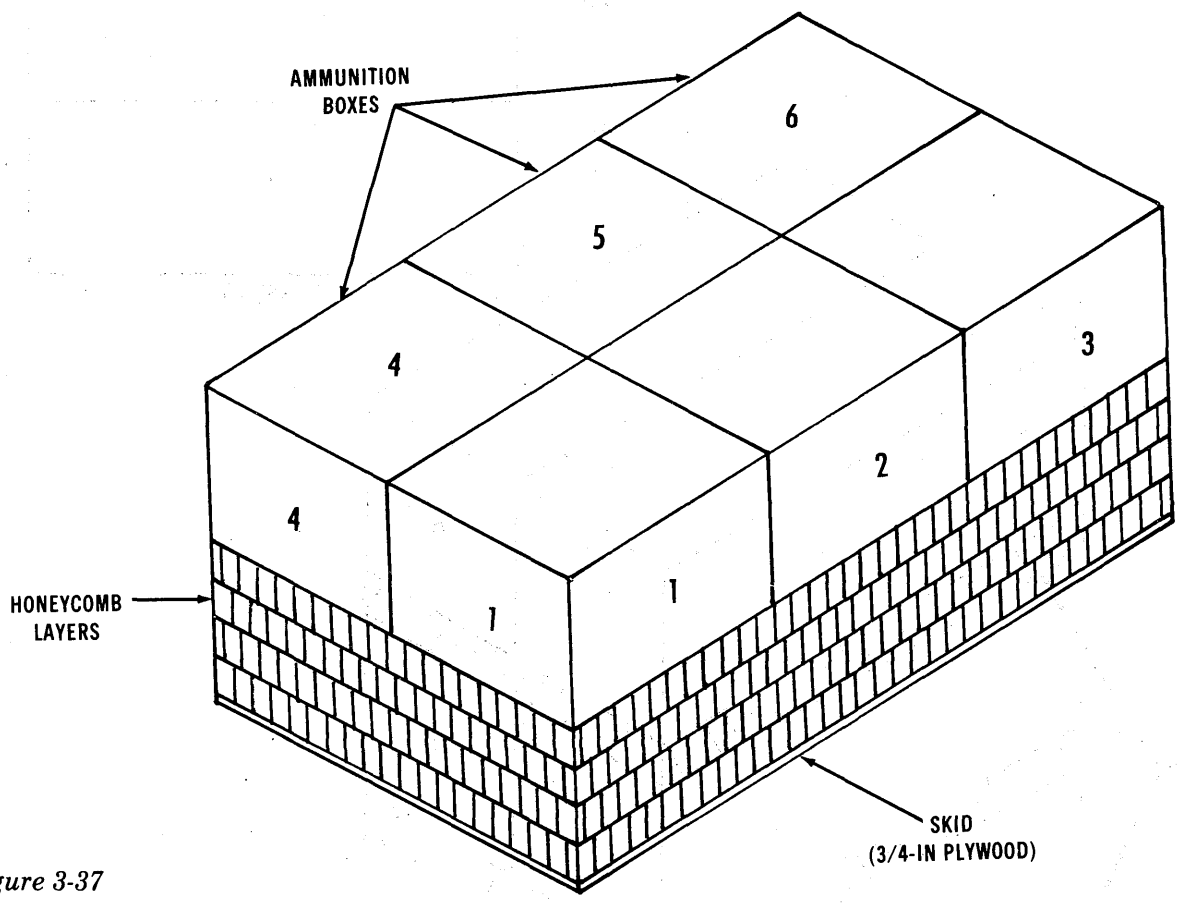


Figure 3-37

The following ammunition items are rigged in an A-7A cargo sling for high-velocity airdrop as shown in figure 3-37.

Dropping these items as a single item load may not be practical; however, they can be contained in an A-7A cargo sling with other compatible items and air-dropped. Quantity and type of items that can be rigged in an A-7A cargo sling are determined by the individual ammunition container dimensions and weight.

Fuzes and Primer

When Proximity fuzes are air-dropped, the boxed fuzes must be dropped in the "nosedown" position. If the boxes are damaged the fuzes should not be used.

Fuze, MT, M565 (DODAC 1390-N248)
Fuze, MTSQ, M500 or M500A1 (DODAC 1390-N275)
Fuze, MTSQ, M501 or M501A1 (DODAC 1390-N276)
Fuze, MTSQ, M502 or M502A1 (DODAC 1390-N277)

Fuze, MT, M564 (DODAC 1390-N278)
Fuze, MTSQ, M513 (DODAC 1390-N279)
Fuze, MTSQ, M520 (DODAC 1390-N280)
Fuze, MTSQ, M577 (DODAC 1390-N285)
Fuze, PD, M572 (DODAC 1390-N311)
Fuze, PD, M48A3 (DODAC 1390-N318)
Fuze, PD, M535 (DODAC 1390-N323)
Fuze, PD, M508 (DODAC 1390-N326)
Fuze, PD, M557 (DODAC 1390-N335)
Fuze, TSQ, M54 (DODAC 1390-N400)
Fuze, Proximity, M532 (DODAC 1390-N402)
Fuze, Proximity, M514 or M514A1 or M514B1 (DODAC 1390-N411)
Fuze, Proximity, M513A1 or M513B1 (DODAC 1390-N412)
Fuze, Proximity, M516 (DODAC 1390-N416)
Fuze, Proximity, M517 (DODAC 1390-N417)
Fuze, Proximity, M515 (DODAC 1390-N420)
Fuze, Proximity, M728 (DODAC 1390-N463)
Fuze, Proximity, M514A1 (DODAC 1390-N477)

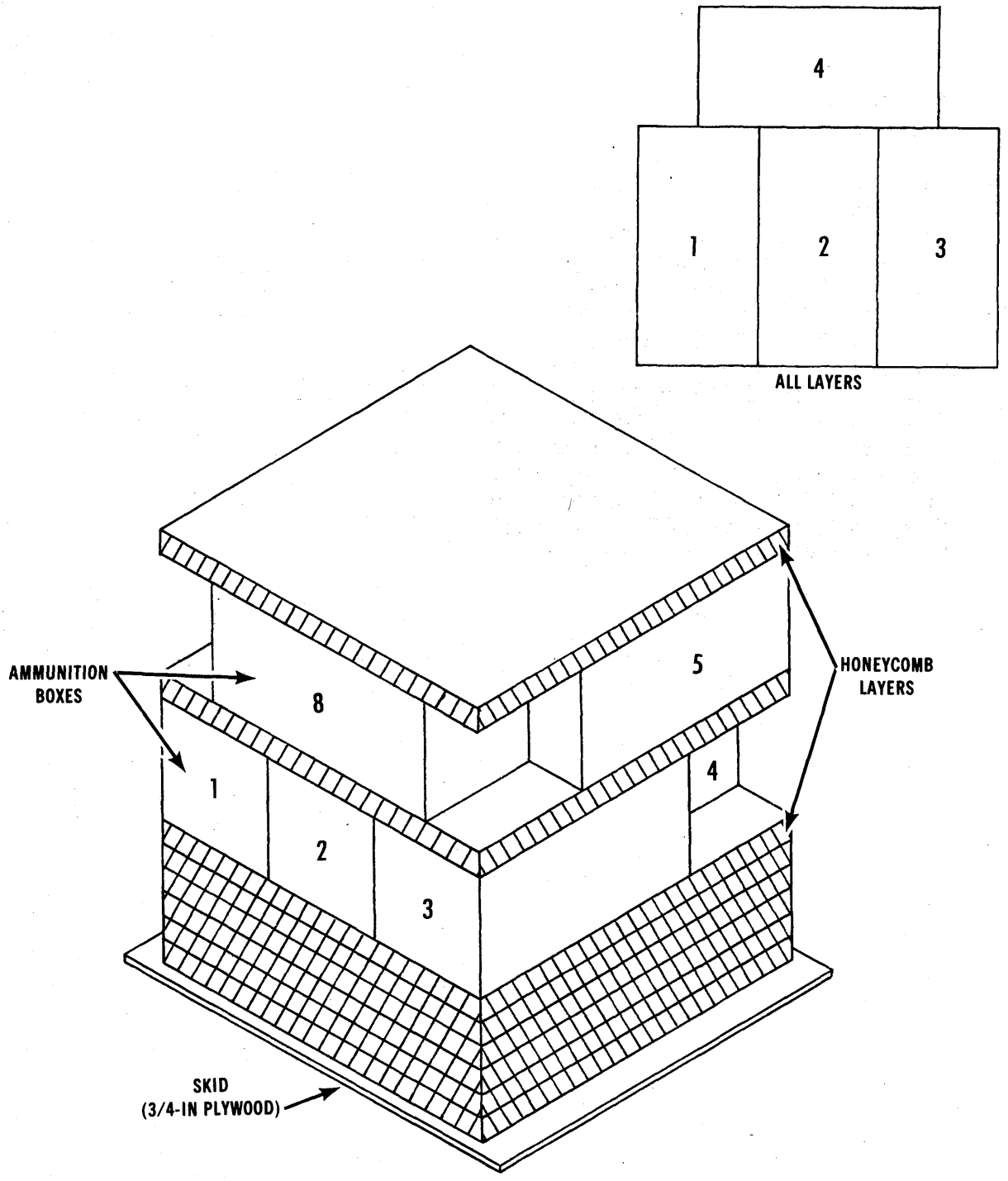


Figure 3-38

The following ammunition item is rigged in an A-7A cargo sling for high-velocity airdrop as shown in figure 3-38.

Primer

Primer, Percussion, M82 (DODAC 1390-N523)

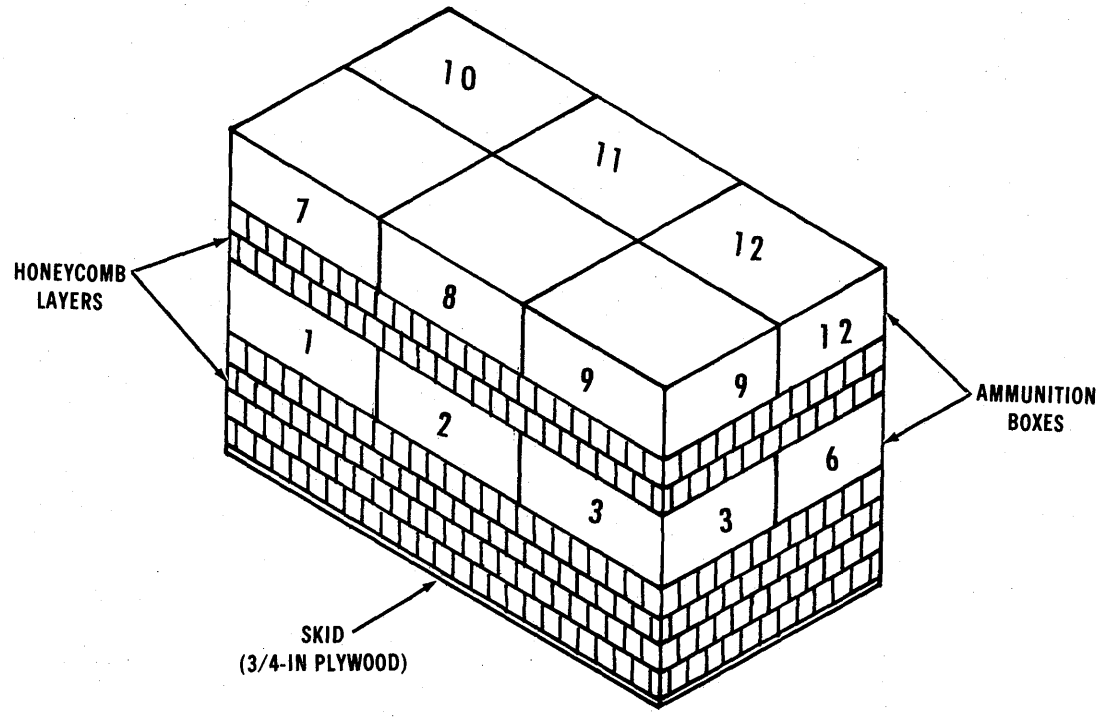


Figure 3-39

The following ammunition item is rigged in an A-7A cargo sling for high-velocity airdrop as shown in figure 3-39.

Primer

Primer, Percussion, MK2A4 (DODAC 1390-N525)

APPENDIX A
REFERENCES

AFR 71-4/TM 38-250	Packaging and Materials Handling: Preparation of Hazardous Materials for Military Air Shipment
FM 10-501/TO 13C7-1-11	Airdrop of Supplies and Equipment: Rigging Containers
FM 10-515/TO 13C7-10-181	Airdrop of Supplies and Equipment: Rigging Reconnaissance/Airborne Assault Vehicle (M-551)
FM 10-529/TO 13C7-10-171	Airdrop of Supplies and Equipment: Rigging Heavy Antitank Assault Weapon System (TOW)
FM 10-534/TO 13C7-10-161	Airdrop of Supplies and Equipment: Rigging Air Defense Artillery Gun (Vulcan)
FM 10-544/TO 13C7-22-51	Airdrop of Supplies and Equipment: Rigging Redeye Missiles
*FM 10-552/TO 13C7-22-61	Airdrop of Supplies and Equipment: Rigging Dragon Missiles
TM 10-1670-202-25	Organizational, Field and Depot Maintenance: Parachute, Cargo, 28-Foot Diameter Nylon Canopy, Type T-7A (Converted)
TM 10-1670-215-23	Organizational and Direct Support Maintenance Manual (Including Repair Parts and Special Tools List) for Parachutes Cargo Types; 12-Foot Diameter, High-Velocity, G-13; 24-Foot- and 26-Foot Diameter, High-Velocity, G-14; 34-Foot and 38-Foot Diameter, BCAT, G-12C and G-12D, 64-Foot Diameter, G-11A; 100-Foot Diameter, 15-Foot; 22-Foot and 28-Foot Diameter Extraction, and 3-Foot-Square Pilot

*To be published.

APPENDIX B
EQUIPMENT REQUIRED

National Stock No.	Item
	LOW-VELOCITY
8040-00-273-8713	Adhesive, paste, 1 gal
8465-00-587-3421	Bag, cargo, aerial delivery, type A-22
1377-00-958-1048	Cartridge, time-delay, 20-sec
4030-00-678-8562	Clevis, suspension, cargo
4020-00-240-2146	Cord, nylon, type III, 550-lb
1670-00-753-3928	Pad, energy-dissipating, honeycomb
	Parachute cargo:
1670-00-272-8955	G-12C
1670-00-893-2371	G-12D
1670-00-606-8537	G-13
1670-00-999-2658	G-14
1670-00-038-4413	T-7
1377-00-799-8494	Release, cargo parachute, 5,000-lb-capacity
8135-00-290-1086	Seal, steel strapping, 5/8-in
1670-00-251-1153	Sling, cargo, A/D, 500-lb-capacity, 188-in long (A-7A)
1670-00-753-3788	Sling, cargo, A/D, 3-ft
8135-00-283-0067	Steel Strapping, 5/8-in
7510-00-266-5016	Tape, adhesive, 2-in
8310-00-917-3942	Thread, cotton, ticket No. 5
8305-00-268-2411	Webbing, cotton, 80-lb
5530-00-128-4981	Plywood, 3/4-in thick, exterior
	HIGH-VELOCITY
8040-00-273-8713	Adhesive, paste, 1 gal
1670-00-360-0308	Clevis, suspension cargo
4020-00-240-2146	Cord, nylon, type III, 550-lb
1670-00-360-0329	Cover, link, dual
1670-00-783-5988	Link Assembly, single, suspension or extraction, quick-release type IV
1670-00-753-3928	Pad, energy-dissipating, honeycomb
	Parachute, cargo, high-velocity:
1670-00-788-8666	12-ft diam
1670-00-872-6109	26-ft diam
	Parachute, cargo extraction:
1670-00-052-1548	15-ft
1670-00-687-5458	22-ft
1670-00-216-7297	Pilot Chute, cargo type, 68-in diam
8135-00-290-1086	Seal, steel strapping, 5/8-in
1670-00-360-0560	Sling Assembly, type A-22
1670-00-251-1153	Sling, cargo, A/D, 500-lb-capacity, 188-in long (A-7A)
1670-00-753-3794	Sling, cargo, A/D, 20-ft (2-loop)
1670-00-611-4347	Static Line, cargo parachute, 15-ft long
8135-00-283-0667	Steel Strapping, 5/8-in
1670-00-368-7486	Strap, webbing, nylon, 60-in (shear strap)
7510-00-266-5016	Tape, adhesive, 2-in
5530-00-128-4981	Plywood, 3/4-in thick, exterior

FM 10-553/TO 13C7-18-41

4 DECEMBER 1981

By Order of the Secretaries of the Army and the Air Force:

E. C. MEYER
General, United States Army
Chief of Staff

Official:

ROBERT M. JOYCE
Brigadier General, United States Army
The Adjutant General

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